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Exact Mass Pesticide Database for use by GC-HRMS

Report 7

(latest version 241219)

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December 2024

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1. Introduction

This report describes an exact mass database of 219 pesticides for use with gas chromatography high resolution mass spectrometry (GC-HRMS). For each pesticide the chemical formula and molecular weight is listed as well as the formula and exact mass of a number of characteristic fragment ions.

The database was updated in 2018 with exact mass fragments of 70 pesticides and together with the pesticides included in the database in 2014, 2015, 2017, 2019, 2023 and 2024, the total number of pesticides with exact mass fragments are now 219. Many of them not included in the commercially available libraries.

Instrumentations

The Exact masses of the ions listed in Table 1 are calculated using different tools, like formula data generators, NIST library, and ChemCalc. The presence of the ions has been controlled by standard analysed by either GC-QTOF or GC-Orbitrap instruments. See parameters below.

GC-QTOF

GC-system: 7890B Agilent equipped with PAL autosampler system and PTV injector.

Injection volume: 5 µl

Injection programme: The injector was programmed from initially 30 °C for 0.8 min to 290 °C at a rate of 480 °C per min⁻¹ and held for 2 min before further incensement to 310 °C at a rate of 720 °C per min⁻¹. Purge time was 3.05 minutes and aliquot of 5 µl extract was injected.

Column: Two HP5-5MS UI, 15 m, 0.25 mmID, 0.25 µm df with backflush.

Carrier gas: Helium

Carrier flow: 1.2 ml/min

Oven programme: The oven was programmed from initially 60°C for 3 minutes increasing to 180 °C at a rate of 30 °C min⁻¹ and then further, after 0.8 min increased to 290°C at a rate of 5°C min⁻¹. This temperature was maintained for 16 min. Runtime: 38 min. Backflush at 300°C for 2.7 min.

TOF instrument: 7200 GC/Q-TOF, Agilent Technologies

Ionisation mode: EI positive

Acquisition rate: 4GHz

Acquisition mode: centroid

Source temperature 230

Software: MassHunter B 06.01.1312

GC-Orbitrap

GC-system: Trace 1300 series GC PAL autosampler system and PTV injector, Thermo Scientific

Injection volume: 1 µL.

Injection programme: The injector was programmed from initially 30 °C for 0.8 min to 290 °C at a rate of 480 °C per min⁻¹ and held for 2 min before further incensement to 310 °C at a rate of 720 °C per min⁻¹. Purge time was 3.05 minutes and aliquot of 5 µl extract was injected.

Column: TG-5SILMS 30mx0.25mmx0.25µm.

Carrier gas: Helium

Carrier flow: 1.2 ml/min

Oven programme: The initial starting temperature was set at 60 °C for 1.5 min. The temperature was increased to 90 °C at a rate of 25°C/min and held for 1.5 min, then up to 180 °C at 25°C/min, then further after to 280°C at 5 °C/min, and finally up to 300°C at a rate of 10°C/min. This temperature was maintained for 12 min.

Orbitrap instrument: Exactive GC-Orbitrap-MS

Ionisation mode: EI positive

Ion source temperature : 280 °C

MS transfer line : 280 °C

Filament on delay: 6 min

Acquisition mode: Full MS

Resolution: 60 000

AGC target: 1e6

Scan range: 50 to 500 m/z

Runtime: 6 to 32 min

Table 1. Exact mass database of 219 pesticides for use by GC-HRMS

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	1-Naphthylacetamide	86-86-2	13.2	185.08406	C12H11NO		
2018	1-Naphthylacetamide	86-86-2	13.2		C12H11NO	185.08352	185.08406
2018	1-Naphthylacetamide	86-86-2	13.2		C9H7	115.05423	115.05478
2018	1-Naphthylacetamide	86-86-2	13.2		C11H10	142.07770	142.07825
2018	1-Naphthylacetic_acid	86-87-3	13.3	186.06808	C12H10O2		
2018	1-Naphthylacetic_acid	86-87-3	13.3		C11H9	141.06988	141.07043
2018	1-Naphthylacetic_acid	86-87-3	13.3		C9H7	115.05423	115.05478
2018	1-Naphthylacetic_acid	86-87-3	13.3		C11H7	139.05423	139.05478
2014	2,4-D Butyl ester	94-80-4	12.6	276.03200	C12H14O3Cl2		
2014	2,4-D Butyl ester	94-80-4	12.6		C8H6O3Cl2	219.96885	219.96940
2014	2,4-D Butyl ester	94-80-4	12.6		C8H6O3Cl	185.00000	185.00055
2014	2,4-D Butyl ester	94-80-4	12.6		C7H5OCl2	174.97120	174.97175
2014	2,4-D Butyl ester	94-80-4	12.6		C6H4OCl2	161.96337	161.96392
2014	2,4-D Butyl ester	94-80-4	12.6		C6H3Cl2	144.96063	144.96118
2014	2,4,5-T-methylester	1928-37-6	11.4	267.94610	C9H7O3Cl3		
2014	2,4,5-T-methylester	1928-37-6	11.4		C9H7O3Cl2	232.97668	232.97723
2014	2,4,5-T-methylester	1928-37-6	11.4		C7H4OCl3	208.93222	208.93277
2014	2,4-DB-methylester	18625-12-2	12.2	262.01640	C11H12O3Cl2		
2014	2,4-DB-methylester	18625-12-2	12.2		C10H9O2Cl2	230.99741	230.99796
2014	2,4-DB-methylester	18625-12-2	12.2		C6H4OCl2	161.96337	161.96392
2014	2,4-DB-methylester	18625-12-2	12.2		C5H9O2	101.05971	101.06026
2015	2,4-D-methylester	1928-38-7	9.8	233.98500	C9H8O3Cl2		
2015	2,4-D-methylester	1928-38-7	9.8		C9H8O3Cl	199.01565	199.01620
2015	2,4-D-methylester	1928-38-7	9.8		C7H5OCl2	174.97120	174.97175
2015	2,4-D-methylester	1928-38-7	9.8		C6H3OCl2	160.95555	160.95610
2014	4,4'-Dichlorobenzophenone	90-98-2	14.2	249.99520	C13H8OCl2		
2014	4,4'-Dichlorobenzophenone	90-98-2	14.2		C13H8OCl	215.02582	215.02637
2014	4,4'-Dichlorobenzophenone	90-98-2	14.2		C7H4OCl	138.99452	138.99507
2014	4,4'-Dichlorobenzophenone	90-98-2	14.2		C6H4Cl	110.99960	111.00015
2018	8-Hydroxyquinoline	148-24-3	7.7	145.05276	C9H7NO		
2018	8-Hydroxyquinoline	148-24-3	7.7		C9H7NO	145.05222	145.05276
2018	8-Hydroxyquinoline	148-24-3	7.7		C8H7N	117.05730	117.05785
2018	8-Hydroxyquinoline	148-24-3	7.7		C7H6	90.04640	90.04695
2014	Acetochlor	34256-82-1	12.7	269.11830	C14H20NO2Cl		
2014	Acetochlor	34256-82-1	12.7		C14H20NO2	234.14886	234.14940
2014	Acetochlor	34256-82-1	12.7		C12H14NOCl	223.07584	223.07639
2014	Acetochlor	34256-82-1	12.7		C11H12NO	174.09134	174.09189
2014	Acetochlor	34256-82-1	12.7		C10H12NO	162.09134	162.09189

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Acetochlor	34256-82-1	12.7		C10H12N	146.09643	146.09697
2014	Acetochlor	34256-82-1	12.7		C9H10N	132.08078	132.08132
2015	Acibenzolar-S-Methyl	135158-54-2	13.0	209.99220	C8H6N2OS2		
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C8H6OS2	181.98546	181.98601
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C8H5OS2	180.97763	180.97818
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C7H3OS2	166.96198	166.96253
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C7H5S2	152.98272	152.98327
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C6H3N2S	135.00115	135.00169
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C7H3OS	134.98991	134.99046
2015	Acibenzolar-S-Methyl	135158-54-2	13.0		C6H3S	106.99500	106.99555
2017	Alachlor	15972-60-8	12.9	269.11826	C14H20ClNO2		
2017	Alachlor	15972-60-8	12.9		C13H17ClNO	238.09932	238.09987
2017	Alachlor	15972-60-8	12.9		C13H16ClNO	237.09149	237.09204
2017	Alachlor	15972-60-8	12.9		C12H15ClNO	224.08367	224.08422
2017	Alachlor	15972-60-8	12.9		C13H16NO	202.12264	202.12319
2017	Alachlor	15972-60-8	12.9		C12H14NO	188.10699	188.10754
2017	Alachlor	15972-60-8	12.9		C11H15N	161.11990	161.12045
2017	Alachlor	15972-60-8	12.9		C11H14N	160.11208	160.11262
2017	Alachlor	15972-60-8	12.9		C11H12N	158.09643	158.09697
2017	Alachlor	15972-60-8	12.9		C10H12N	146.09643	146.09697
2017	Alachlor	15972-60-8	12.9		C10H10N	144.08078	144.08132
2017	Alachlor	15972-60-8	12.9		C9H10N	132.08078	132.08132
2017	Alachlor	15972-60-8	12.9		C8H8N	118.06513	118.06567
2024	Aldrin	309-00-2	14.9	361.87570	C12H8Cl6		
2024	Aldrin	309-00-2	14.9		C12H7Cl4	290.92964	290.93019
2024	Aldrin	309-00-2	14.9		C12H7Cl3Cl(37)	292.92668	292.92723
2024	Aldrin	309-00-2	14.9		C7H2Cl6	295.82822	295.82877
2024	Aldrin	309-00-2	14.9		C7H2Cl5Cl(37)	297.82527	297.82581
2024	Aldrin	309-00-2	14.9		C7H2Cl5	260.85937	260.85991
2024	Aldrin	309-00-2	14.9		C7H2Cl4Cl(37)	262.85641	262.85696
2017	Allethrin	584-79-2	11.2	302.18819	C19H26O3		
2017	Allethrin	584-79-2	11.2		C9H10O	134.07262	134.07317
2017	Allethrin	584-79-2	11.2		C9H15	123.11683	123.11738
2017	Allethrin	584-79-2	11.2		C8H7O	119.04914	119.04969
2017	Allethrin	584-79-2	11.2		C8H9	105.06988	105.07043
2017	Allethrin	584-79-2	11.2		C7H7	91.05423	91.05478
2017	Allethrin	584-79-2	11.2		C6H7	79.05423	79.05478
2014	Allethrin	584-79-2	15.4	302.18820	C19H26O3		
2014	Allethrin	584-79-2	15.4		C9H12O	136.08827	136.08882

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Allethrin	584-79-2	15.4		C ₉ H ₁₀ O	134.07262	134.07317
2014	Allethrin	584-79-2	15.4		C ₉ H ₁₅	123.11683	123.11738
2014	Allethrin	584-79-2	15.4		C ₈ H ₇ O	119.04914	119.04969
2014	Allethrin	584-79-2	15.4		C ₈ H ₁₁	107.08553	107.08608
2014	Allethrin	584-79-2	15.4		C ₈ H ₉	105.06988	105.07043
2018	Ametoctradin	865318-97-4	23.7	275.21100	C ₁₅ H ₂₅ N ₅		
2018	Ametoctradin	865318-97-4	23.7		C ₈ H ₁₀ N ₅	176.09307	176.09362
2018	Ametoctradin	865318-97-4	23.7		C ₉ H ₁₂ N ₅	190.10872	190.10927
2018	Ametoctradin	865318-97-4	23.7		C ₈ H ₁₁ N ₅	177.10090	177.10145
2018	Amidosulfuron	120923-37-7	27.7	369.04129	C ₉ H ₁₅ N ₅ O ₇ S ₂		
2018	Amidosulfuron	120923-37-7	27.7		C ₄ H ₅ N ₄ O ₄ S ₂	236.97468	236.97523
2018	Amidosulfuron	120923-37-7	27.7		C ₅ H ₁₁ N ₄ S	159.06989	159.07044
2018	Amidosulfuron	120923-37-7	27.7		C ₄ H ₅ N ₄ O ₄ (34S)S	238.97047	238.97102
2015	Anilofos	64249-01-0	21.7	367.02320	C ₁₃ H ₁₉ NO ₃ PS ₂ Cl		
2015	Anilofos	64249-01-0	21.7		C ₁₁ H ₁₃ NSCl	226.04517	226.04572
2015	Anilofos	64249-01-0	21.7		C ₁₁ H ₁₄ NOCl	211.07584	211.07639
2015	Anilofos	64249-01-0	21.7		C ₈ H ₇ NSCl	183.99822	183.99877
2015	Anilofos	64249-01-0	21.7		C ₃ H ₈ O ₂ PS ₂	170.96978	170.97033
2015	Anilofos	64249-01-0	21.7		C ₈ H ₉ NCI	154.04180	154.04235
2015	Anilofos	64249-01-0	21.7		C ₂ H ₆ O ₂ PS	124.98206	124.98261
2017	Anthraquinone	84-65-1	13.9	208.05243	C ₁₄ H ₈ O ₂		
2017	Anthraquinone	84-65-1	13.9		C ₁₄ H ₈ O ₂	208.05188	208.05243
2017	Anthraquinone	84-65-1	13.9		C ₁₃ H ₈ O	180.05697	180.05752
2017	Anthraquinone	84-65-1	13.9		C ₁₂ H ₈	152.06205	152.06260
2017	Anthraquinone	84-65-1	13.9		C ₁₂ H ₇	151.05423	151.05478
2014	Aspon	3244-90-4	14.0	378.08530	C ₁₂ H ₂₈ O ₅ P ₂ S ₂		
2014	Aspon	3244-90-4	14.0		C ₉ H ₂₂ O ₅ P ₂ S ₂	336.03784	336.03839
2014	Aspon	3244-90-4	14.0		C ₆ H ₁₇ O ₅ P ₂ S ₂	294.99871	294.99926
2014	Aspon	3244-90-4	14.0		C ₃ H ₁₁ O ₅ P ₂ S ₂	252.95176	252.95231
2014	Aspon	3244-90-4	14.0		H ₅ O ₅ P ₂ S ₂	210.90481	210.90536
2014	Aspon	3244-90-4	14.0		H ₄ O ₅ P ₂ S ₂	209.89699	209.89754
2014	Aspon	3244-90-4	14.0		H ₃ O ₄ P ₂ S ₂	192.89425	192.89480
2014	Aspon	3244-90-4	14.0		H ₄ O ₃ PS	114.96133	114.96188
2015	Atraton	1610-17-9	10.6	211.14330	C ₉ H ₁₇ N ₅ O		
2015	Atraton	1610-17-9	10.6		C ₈ H ₁₄ N ₅ O	196.11929	196.11984
2015	Atraton	1610-17-9	10.6		C ₆ H ₁₁ N ₅ O	169.09581	169.09636
2015	Atraton	1610-17-9	10.6		C ₅ H ₈ N ₅ O	154.07234	154.07289
2015	Azaconazole	60207-31-0	17.3	299.02280	C ₁₂ H ₁₁ N ₃ O ₂ Cl ₂		
2015	Azaconazole	60207-31-0	17.3		C ₉ H ₇ O ₂ Cl ₂	216.98176	216.98231

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2015	Azaconazole	60207-31-0	17.3		C7H3OCl ₂	172.95555	172.95610
2018	Azinphos-ethyl	2642-71-9	24.2	345.03707	C ₁₂ H ₁₆ N ₃ O ₃ PS ₂		
2018	Azinphos-ethyl	2642-71-9	24.2		C ₈ H ₆ N ₃ O	160.05054	160.05109
2018	Azinphos-ethyl	2642-71-9	24.2		C ₈ H ₆ NO	132.04439	132.04494
2018	Azinphos-ethyl	2642-71-9	24.2		C ₄ H ₁₀ O ₂ P	121.04130	121.04184
2018	Azinphos-ethyl	2642-71-9	24.2		C ₇ H ₆ N	104.04948	104.05002
2018	Azinphos-ethyl	2642-71-9	24.2		C ₆ H ₅	77.03858	77.03913
2018	Azinphos-ethyl	2642-71-9	24.2		H ₂ O ₂ PS	96.95077	96.95132
2018	Azinphos-methyl	86-50-0	23.0	317.00577	C ₁₀ H ₁₂ N ₃ O ₃ PS ₂		
2018	Azinphos-methyl	86-50-0	23.0		C ₈ H ₆ N ₃ O	160.05054	160.05109
2018	Azinphos-methyl	86-50-0	23.0		C ₈ H ₆ NO	132.04439	132.04494
2018	Azinphos-methyl	86-50-0	23.0		C ₂ H ₆ O ₂ PS	124.98207	124.98262
2018	Azinphos-methyl	86-50-0	23.0		C ₇ H ₆ N	104.04948	104.05002
2018	Azinphos-methyl	86-50-0	23.0		C ₂ H ₆ O ₂ P	93.01000	93.01054
2018	Azinphos-methyl	86-50-0	23.0		C ₆ H ₅	77.03858	77.03913
2014	Aziprotryne	4658-28-0	11.6	225.07970	C ₇ H ₁₁ N ₇ S		
2014	Aziprotryne	4658-28-0	11.6		C ₆ H ₈ N ₇ S	210.05564	210.05619
2014	Aziprotryne	4658-28-0	11.6		C ₇ H ₁₁ N ₅ S	197.07297	197.07352
2014	Aziprotryne	4658-28-0	11.6		C ₇ H ₁₀ N ₅ S	196.06514	196.06569
2014	Aziprotryne	4658-28-0	11.6		C ₆ H ₈ N ₅ S	182.04949	182.05004
2014	Aziprotryne	4658-28-0	11.6		C ₅ H ₅ N ₅ S	167.02602	167.02657
2014	Aziprotryne	4658-28-0	11.6		C ₆ H ₈ N ₅	150.07742	150.07797
2014	Aziprotryne	4658-28-0	11.6		C ₆ H ₁₁ N ₄	139.09782	139.09837
2014	Barban	101-27-9	16.8	257.00100	C ₁₁ H ₉ NO ₂ Cl ₂		
2014	Barban	101-27-9	16.8		C ₁₁ H ₉ NO ₂ Cl	222.03163	222.03218
2014	Barban	101-27-9	16.8		C ₇ H ₄ NOCl	152.99759	152.99814
2014	Barban	101-27-9	16.8		C ₁₀ H ₉ N	143.07295	143.07350
2014	Barban	101-27-9	16.8		C ₆ H ₆ NCI	127.01833	127.01888
2014	Barban	101-27-9	16.8		C ₆ H ₄ NCI	125.00268	125.00323
2014	Benfluralin	1861-40-1	10.2	335.10930	C ₁₃ H ₁₆ N ₃ O ₄ F ₃		
2014	Benfluralin	1861-40-1	10.2		C ₁₀ H ₉ N ₃ O ₄ F ₃	292.05397	292.05452
2014	Benfluralin	1861-40-1	10.2		C ₁₀ H ₉ N ₃ O ₃ F ₃	276.05905	276.05960
2014	Benfluralin	1861-40-1	10.2		C ₈ H ₅ N ₃ O ₄ F ₃	264.02267	264.02322
2015	Benoxacor	98730-04-2	12.2	259.01670	C ₁₁ H ₁₁ NO ₂ Cl ₂		
2015	Benoxacor	98730-04-2	12.2		C ₁₁ H ₁₁ NO ₂	189.07843	189.07898
2015	Benoxacor	98730-04-2	12.2		C ₁₀ H ₁₀ NO ₂	176.07061	176.07115
2015	Benoxacor	98730-04-2	12.2		C ₉ H ₈ NO	146.06004	146.06059
2015	Benoxacor	98730-04-2	12.2		C ₈ H ₈ NO	134.06004	134.06059
2015	Benoxacor	98730-04-2	12.2		C ₇ H ₆ NO	120.04439	120.04494

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Bensulide	741-58-2	12.2	397.06050	C14H24NO4PS3		
2014	Bensulide	741-58-2	12.2		C7H8NO2S	170.02703	170.02757
2014	Bensulide	741-58-2	12.2		C6H5O2S	141.00048	141.00103
2014	Bensulide	741-58-2	12.2		C6H5	77.03858	77.03913
2014	Benzoylprop-ethyl	22212-55-1	20.8	365.05850	C18H17NO3Cl2		
2014	Benzoylprop-ethyl	22212-55-1	20.8		C15H12NOCl2	292.02905	292.02959
2014	Benzoylprop-ethyl	22212-55-1	20.8		C6C(13)H5O	106.03685	106.03740
2014	Benzoylprop-ethyl	22212-55-1	20.8		C7H5O	105.03349	105.03404
2014	Benzoylprop-ethyl	22212-55-1	20.8		C6H5	77.03858	77.03913
2018	Bifenazate	149877-41-8	22.0	300.14739	C17H20N2O3		
2018	Bifenazate	149877-41-8	22.0		C17H20N2O3	300.14684	300.14739
2018	Bifenazate	149877-41-8	22.0		C14H14N2O3	258.09990	258.10044
2018	Bifenazate	149877-41-8	22.0		C13H14N2O	214.11007	214.11061
2018	Bifenazate	149877-41-8	22.0		C13H10NO	196.07569	196.07624
2018	Bifenazate	149877-41-8	22.0		C12H10NO	184.07569	184.07624
2018	Bifenazate	149877-41-8	22.0		C12H10O	170.07262	170.07317
2018	Bifenazate	149877-41-8	22.0		C12H8	152.06205	152.06260
2017	Bifenox	42576-02-3	21.7	340.98578	C14H9Cl2NO5		
2017	Bifenox	42576-02-3	21.7		C14H9Cl(37Cl)NO5	342.98228	342.98283
2017	Bifenox	42576-02-3	21.7		C14H9Cl2NO5	340.98523	340.98578
2017	Bifenox	42576-02-3	21.7		C13H6Cl(37Cl)NO4	311.96389	311.96444
2017	Bifenox	42576-02-3	21.7		C14H9Cl2O4	310.98724	310.98779
2017	Bifenox	42576-02-3	21.7		C13H6Cl2NO4	309.96684	309.96739
2017	Bifenox	42576-02-3	21.7		C11H6Cl	173.01525	173.01580
2017	Bixafen	581809-46-3	27.0	413.03095	C18H12Cl2F3N3O		
2017	Bixafen	581809-46-3	27.0		C18H12Cl(37Cl)F3N3O	415.02745	415.02800
2017	Bixafen	581809-46-3	27.0		C18H12Cl2F3N3O	413.03040	413.03095
2017	Bixafen	581809-46-3	27.0		C6H5F2N2O	159.03645	159.03699
2017	Bromacil	314-40-9	13.5	260.01604	C9H13BrN2O2		
2017	Bromacil	314-40-9	13.5		C5H6(81Br)N2O2	206.95867	206.95922
2017	Bromacil	314-40-9	13.5		C5H6BrN2O2	204.96072	204.96127
2017	Bromacil	314-40-9	13.5		C5H3BrNO2	187.93417	187.93472
2017	Bromacil	314-40-9	13.5		C4H5(81Br)NO	163.95286	163.95340
2017	Bromacil	314-40-9	13.5		C4H5BrNO	161.95490	161.95545
2014	Butachlor	23184-66-9	16.3	311.16520	C17H26NO2Cl		
2014	Butachlor	23184-66-9	16.3		C17H26NO2	276.19581	276.19635
2014	Butachlor	23184-66-9	16.3		C13H16NOCl	237.09149	237.09204
2014	Butachlor	23184-66-9	16.3		C13H16NO	202.12264	202.12319
2014	Butachlor	23184-66-9	16.3		C12H14NO	188.10699	188.10754

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Butachlor	23184-66-9	16.3		C11H14NO	176.10699	176.10754
2014	Butachlor	23184-66-9	16.3		C11H14N	160.11208	160.11262
2014	Butachlor	23184-66-9	16.3		C10H12N	146.09643	146.09697
2015	Butafenacil	134605-64-4	25.4	474.08050	C20H18N2O6ClF3		
2015	Butafenacil	134605-64-4	25.4		C13H7N2O3ClF3	331.00918	331.00973
2015	Butafenacil	134605-64-4	25.4		C8H3NO2Cl	179.98468	179.98523
2014	Butamifos	36335-67-8	16.6	332.09600	C13H21N2O4PS		
2014	Butamifos	36335-67-8	16.6		C13H21NO2PS	286.10251	286.10306
2014	Butamifos	36335-67-8	16.6		C11H17NO2PS	258.07121	258.07176
2014	Butamifos	36335-67-8	16.6		C7H7NO4PS	231.98279	231.98334
2014	Butamifos	36335-67-8	16.6		C7H7NO4P	200.01072	200.01127
2017	Butralin	33629-47-9	14.5	295.15321	C14H21N3O4		
2017	Butralin	33629-47-9	14.5		C14H19N3O3	277.14209	277.14264
2017	Butralin	33629-47-9	14.5		C12H16N3O4	266.11353	266.11408
2017	Butralin	33629-47-9	14.5		C11H14N3O3	236.10297	236.10352
2017	Butralin	33629-47-9	14.5		C9H10N3O4	224.06658	224.06713
2017	Butralin	33629-47-9	14.5		C11H14N3O2	220.10805	220.10860
2017	Buturon	3766-60-7	6.4	236.07164	C12H13ClN2O		
2017	Buturon	3766-60-7	6.4		C7H4(37Cl)NO	154.99464	154.99519
2017	Buturon	3766-60-7	6.4		C7H4ClNO	152.99759	152.99814
2017	Buturon	3766-60-7	6.4		C6H4ClN	125.00268	125.00323
2014	Butylate	2008-41-5	8.1	217.15000	C11H23NOS		
2014	Butylate	2008-41-5	8.1		C8H16NOS	174.09471	174.09526
2014	Butylate	2008-41-5	8.1		C9H18NO	156.13829	156.13884
2014	Butylate	2008-41-5	8.1		C7H16NS	146.09980	146.10035
2017	Captafol	2425-06-1		346.91081	C10H9Cl4NO2S		
2017	Captafol	2425-06-1			C2HCl2(37Cl)	131.91088	131.91143
2017	Captafol	2425-06-1			C2HCl3	129.91383	129.91438
2017	Captafol	2425-06-1			C2HCl2	94.94498	94.94553
2017	Captafol	2425-06-1			C2ClS	90.94038	90.94092
2017	Captafol	2425-06-1			C6H7	79.05423	79.05478
2014	Carbetamide	16118-49-3	14.2	236.11610	C12H16N2O3		
2014	Carbetamide	16118-49-3	14.2		C6C(13)H5NO	120.03992	120.04047
2014	Carbetamide	16118-49-3	14.2		C7H5NO	119.03657	119.03711
2014	Carbetamide	16118-49-3	14.2		C6H5N	91.04165	91.04220
2014	Carbetamide	16118-49-3	14.2		C3H6NO	72.04439	72.04494
2017	Carfentrazone-ethyl	128639-02-1	19.2	411.03643	C15H14Cl2F3N3O3		
2017	Carfentrazone-ethyl	128639-02-1	19.2		C15H13F3N3O3	340.09035	340.09090
2017	Carfentrazone-ethyl	128639-02-1	19.2		C13H8ClF3N3O2	330.02517	330.02571

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Carfentrazone-ethyl	128639-02-1	19.2		C13H9F3N3O3	312.05905	312.05960
2017	Carfentrazone-ethyl	128639-02-1	19.2		C13H7CIF2N3O2	310.01894	310.01949
2017	Carfentrazone-ethyl	128639-02-1	19.2		C11H8CIF3N3O	290.03025	290.03080
2018	Carvone	99-49-0	8.9	150.10447	C10H14O		
2018	Carvone	99-49-0	8.9		C7H7	91.05423	91.05478
2018	Carvone	99-49-0	8.9		C7H9	93.06988	93.07043
2018	Carvone	99-49-0	8.9		C6H7	79.05423	79.05478
2014	Chinomethionate	2439-01-2	15.8	233.99220	C10H6N2OS2		
2014	Chinomethionate	2439-01-2	15.8		C9H6N2S2	205.99669	205.99724
2014	Chinomethionate	2439-01-2	15.8		C9H6N2S	174.02462	174.02517
2014	Chinomethionate	2439-01-2	15.8		C9H5N2S	173.01680	173.01734
2014	Chinomethionate	2439-01-2	15.8		C8H6NS	148.02155	148.02210
2014	Chinomethionate	2439-01-2	15.8		C8H6N	116.04948	116.05002
2018	Chlorantraniliprole	500008-45-7	21.5	480.97079	C18H14BrCl2N5O2		
2018	Chlorantraniliprole	500008-45-7	21.5		C13H8Cl2N2O	278.00082	278.00137
2018	Chlorantraniliprole	500008-45-7	21.5		C9H14BrClN2O	279.99725	279.99780
2018	Chlorantraniliprole	500008-45-7	21.5		C13H8ClN2O	243.03197	243.03252
2017	Chlorbromuron	13360-45-7	8.0	291.96142	C9H10BrClN2O2		
2017	Chlorbromuron	13360-45-7	8.0		C7H3(81Br)(37Cl)NO	234.90311	234.90366
2017	Chlorbromuron	13360-45-7	8.0		C7H3(81Br)ClNO	232.90606	232.90661
2017	Chlorbromuron	13360-45-7	8.0		C7H3BrClNO	230.90811	230.90865
2017	Chlorbromuron	13360-45-7	8.0		C6H3ClN	123.99485	123.99540
2017	Chlorbufam	1967-16-4	10.8	223.04001	C11H10ClNO2		
2017	Chlorbufam	1967-16-4	10.8		C7H4(37Cl)NO	154.99464	154.99519
2017	Chlorbufam	1967-16-4	10.8		C7H4ClNO	152.99759	152.99814
2017	Chlorbufam	1967-16-4	10.8		C6H6ClN	127.01833	127.01888
2017	Chlorbufam	1967-16-4	10.8		C6H4ClN	125.00268	125.00323
2018	Chloridazon	1698-60-8	19.4	221.03559	C10H8ClN3O		
2018	Chloridazon	1698-60-8	19.4		C10H8ClN3O	221.03504	221.03559
2018	Chloridazon	1698-60-8	19.4		C10H8(37Cl)N3O	223.03209	223.03264
2018	Chloridazon	1698-60-8	19.4		C6H5	77.03858	77.03913
2015	Chloroneb	2675-77-6	8.7	205.99010	C8H8O2Cl2		
2015	Chloroneb	2675-77-6	8.7		C7H5O2Cl2	190.96611	190.96666
2015	Chloroneb	2675-77-6	8.7		C6H2O2Cl	140.97378	140.97433
2018	Chlorpropylate	5836-10-2	17.9	338.04765	C17H16Cl2O3		
2018	Chlorpropylate	5836-10-2	17.9		C7H4ClO	138.99452	138.99507
2018	Chlorpropylate	5836-10-2	17.9		C13H9Cl2O	251.00250	251.00305
2018	Chlorpropylate	5836-10-2	17.9		C6H4Cl	110.99960	111.00015
2014	Chlorthiamid	1918-13-4	12.5	204.95200	C7H5NSCl2		

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Chlorthiamid	1918-13-4	12.5		C7H3NCI2	170.96371	170.96426
2014	Chlorthiamid	1918-13-4	12.5		C7H2N	100.01818	100.01872
2018	Cinidon-ethyl	142891-20-1	31.2	393.05347	C19H17CI2NO4		
2018	Cinidon-ethyl	142891-20-1	31.2		C17H13CINO4	330.05276	330.05331
2018	Cinidon-ethyl	142891-20-1	31.2		C19H17CINO4	358.08406	358.08461
2018	Cinidon-ethyl	142891-20-1	31.2		C15H9CINO4	302.02146	302.02201
2018	Clodinafop-propargyl	105512-06-9	19.5	349.05172	C17H13CIFNO4		
2018	Clodinafop-propargyl	105512-06-9	19.5		C11H6CIFNO2	238.00656	238.00711
2018	Clodinafop-propargyl	105512-06-9	19.5		C13H10CIFNO2	266.03786	266.03841
2018	Clodinafop-propargyl	105512-06-9	19.5		C17H13CIFNO4	349.05117	349.05172
2017	Coumaphos	56-72-4	24.8	362.01446	C14H16CIO5PS		
2017	Coumaphos	56-72-4	24.8		C14H16(37CI)O5PS	364.01096	364.01151
2017	Coumaphos	56-72-4	24.8		C14H16CIO5PS	362.01391	362.01446
2017	Coumaphos	56-72-4	24.8		C10H7(37CI)O2S	227.98203	227.98258
2017	Coumaphos	56-72-4	24.8		C10H7CIO2S	225.98498	225.98553
2017	Coumaphos	56-72-4	24.8		C10H7CIO3	210.00782	210.00837
2017	Coumaphos	56-72-4	24.8		C2H6O3P	109.00491	109.00546
2017	Coumaphos	56-72-4	24.8		H2O2PS	96.95076	96.95131
2014	Crimidine	535-89-7	8.8	171.05630	C7H10N3CI		
2014	Crimidine	535-89-7	8.8		C6H7N3CI	156.03230	156.03285
2014	Crimidine	535-89-7	8.8		C6H7N2CI	142.02923	142.02978
2014	Crimidine	535-89-7	8.8		C5H4N2CI	127.00575	127.00630
2014	Crimidine	535-89-7	8.8		C6H6N3	120.05562	120.05617
2014	Crotoxyphos	7700-17-6	16.3	314.09190	C14H19O6P		
2014	Crotoxyphos	7700-17-6	16.3		C6H10O5P	193.02604	193.02659
2014	Crotoxyphos	7700-17-6	16.3		C2H8O4P	127.01547	127.01602
2014	Crotoxyphos	7700-17-6	16.3		C8H9	105.06988	105.07043
2014	Crotoxyphos	7700-17-6	16.3		C8H8	104.06205	104.06260
2014	Crotoxyphos	7700-17-6	16.3		C8H7	103.05423	103.05478
2018	Cyanofenphos	13067-93-1	19.8	303.04829	C15H14NO2PS		
2018	Cyanofenphos	13067-93-1	19.8		C8H10OPS	185.01845	185.01900
2018	Cyanofenphos	13067-93-1	19.8		C8H10O2P	169.04130	169.04184
2018	Cyanofenphos	13067-93-1	19.8		C6H6OPS	156.98715	156.98770
2018	Cyanofenphos	13067-93-1	19.8		C6H6O2P	141.00999	141.01054
2017	Cyanophos	2636-26-2	11.2	243.01190	C9H10NO3PS		
2017	Cyanophos	2636-26-2	11.2		C9H10NO3PS	243.01135	243.01190
2017	Cyanophos	2636-26-2	11.2		C2H6O2PS	124.98206	124.98261
2017	Cyanophos	2636-26-2	11.2		C2H6O3P	109.00491	109.00546
2017	Cyanophos	2636-26-2	11.2		CH4O2P	78.99434	78.99489

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Cycloxydim	101205-02-1	24.0	325.17117	C17H27NO3S		
2018	Cycloxydim	101205-02-1	24.0		C10H12NO2	178.08626	178.08680
2018	Cycloxydim	101205-02-1	24.0		C6H6NO	108.04439	108.04494
2018	Cycloxydim	101205-02-1	24.0		C5H9S	101.04195	101.04250
2017	Cycluron	2163-69-1	11.2	198.17321	C11H22N2O		
2017	Cycluron	2163-69-1	11.2		C3H9N2O	89.07094	89.07149
2017	Cycluron	2163-69-1	11.2		C6H10	82.07770	82.07825
2017	Cycluron	2163-69-1	11.2		C3H6NO	72.04439	72.04494
2017	Cycluron	2163-69-1	11.2		C5H9	69.06988	69.07043
2017	Cyflufenamid	180409-60-3	17.7	412.12102	C20H17F5N2O2		
2017	Cyflufenamid	180409-60-3	17.7		C8H2F4N	188.01179	188.01234
2017	Cyflufenamid	180409-60-3	17.7		C7H2F3N	157.01339	157.01393
2017	Cyflufenamid	180409-60-3	17.7		C8H5F4NO2	223.02509	223.02564
2017	Cyflufenamid	180409-60-3	17.7		C16H4N2O	240.03181	240.03236
2024	Cyhalofop-butyl	122008-85-9	22.9	357.13760	C20H20FNO4		
2024	Cyhalofop-butyl	122008-85-9	22.9		C18H10NO	256.07690	256.07740
2024	Cyhalofop-butyl	122008-85-9	22.9		C16H7NO	229.05340	229.05390
2024	Cyhalofop-butyl	122008-85-9	22.9		C8H8O	120.05700	120.05750
2018	Cyprazin	22936-86-3	13.2	227.09377	C9H14ClN5		
2018	Cyprazin	22936-86-3	13.2		C9H13ClN5	226.08540	226.08595
2018	Cyprazin	22936-86-3	13.2		C8H11ClN5	212.06975	212.07030
2018	Cyprazin	22936-86-3	13.2		C6H7ClN5	184.03845	184.03900
2018	Cyprazin	22936-86-3	13.2		C5H5ClN5	170.02280	170.02335
2018	Cyprazin	22936-86-3	13.2		C5H4N5	134.04612	134.04667
2018	Cyromazine	66215-27-8	11.2	166.09669	C6H10N6		
2018	Cyromazine	66215-27-8	11.2		C5H7N6	151.07267	151.07322
2018	Cyromazine	66215-27-8	11.2		C6H9N6	165.08832	165.08887
2018	Cyromazine	66215-27-8	11.2		C4H5N4	109.05087	109.05142
2014	Cythioate	115-93-5	20.0	296.98950	C8H12NO5PS2		
2014	Cythioate	115-93-5	20.0		C8H9O3PS	216.00045	216.00100
2014	Cythioate	115-93-5	20.0		C2H8O4P	127.01547	127.01602
2014	Cythioate	115-93-5	20.0		C2H6O2PS	124.98206	124.98261
2014	Cythioate	115-93-5	20.0		C2H6O3P	109.00491	109.00546
2017	Dazomet	533-74-4	10.7	162.02854	C5H10N2S2		
2017	Dazomet	533-74-4	10.7		C5H10N2S2	162.02799	162.02854
2017	Dazomet	533-74-4	10.7		C3H7NS	89.02937	89.02992
2017	Dazomet	533-74-4	10.7		CS2	75.94359	75.94414
2017	Dazomet	533-74-4	10.7		C2H3NS	72.99807	72.99862
2017	Dazomet	533-74-4	10.7		C2H2NS	71.99025	71.99080

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Demeton-S	126-75-0	10.6	258.05132	C8H19O3PS2		
2017	Demeton-S	126-75-0	10.6		H4O3PS	114.96133	114.96188
2017	Demeton-S	126-75-0	10.6		H3O3PS	113.95350	113.95405
2017	Demeton-S	126-75-0	10.6		C4H9S	89.04195	89.04250
2017	Demeton-S	126-75-0	10.6		C4H8S	88.03412	88.03467
2024	Denatonium benzoate	3734-33-6	22.6	446.25694	C28H34N2O3		
2024	Denatonium benzoate	3734-33-6	22.6		C12H18N	176.14340	176.14392
2024	Denatonium benzoate	3734-33-6	22.6		C14H21N2O	233.16480	233.16539
2024	Denatonium benzoate	3734-33-6	22.6		C8H9	105.06990	105.07043
2014	Desethylatrazine	6190-65-4	10.0	187.06250	C6H10N5Cl		
2014	Desethylatrazine	6190-65-4	10.0		C5H7N5Cl	172.03845	172.03900
2014	Desethylatrazine	6190-65-4	10.0		C3H4N5Cl	145.01497	145.01552
2017	Desmetryn	1014-69-3	12.8	213.10482	C8H15N5S		
2017	Desmetryn	1014-69-3	12.8		C8H15N5S	213.10427	213.10482
2017	Desmetryn	1014-69-3	12.8		C7H12N5S	198.08079	198.08134
2017	Desmetryn	1014-69-3	12.8		C5H9N5S	171.05732	171.05787
2017	Desmetryn	1014-69-3	12.8		C4H6N5S	156.03384	156.03439
2018	Dialifos	10311-84-9	23.7	393.00252	C14H17ClNO4PS2		
2018	Dialifos	10311-84-9	23.7		C10H7ClNO2	208.01598	208.01653
2018	Dialifos	10311-84-9	23.7		C7H4O	104.02567	104.02622
2018	Dialifos	10311-84-9	23.7		C10H7(37Cl)NO2	210.01303	210.01358
2018	Diallate	2303-16-4	11.2	269.04079	C10H17Cl2NOS		
2018	Diallate	2303-16-4	11.2		C10H17(37Cl)NO(S34)	234.07139	234.07194
2018	Diallate	2303-16-4	11.2		C10H17ClNOS	234.07139	234.07194
2018	Diallate	2303-16-4	11.2		C7H11ClNOS	192.02444	192.02499
2018	Diallate	2303-16-4	11.2		C7H14NO	128.10699	128.10754
2018	Diallate	2303-16-4	11.2		C3H3Cl2	108.96063	108.96118
2018	Diallate	2303-16-4	11.2		C4H8NO	86.06004	86.06059
2014	DiazinonO-analog	962-58-3	12.8	288.12390	C12H21N2O4P		
2014	DiazinonO-analog	962-58-3	12.8		C11H18N2O4P	273.09987	273.10042
2014	DiazinonO-analog	962-58-3	12.8		C10H17N2O4P	260.09205	260.09259
2014	DiazinonO-analog	962-58-3	12.8		C9H14N2O4P	245.06857	245.06912
2014	DiazinonO-analog	962-58-3	12.8		C8H12N2O	152.09441	152.09496
2014	DiazinonO-analog	962-58-3	12.8		C8H11N2O	151.08659	151.08714
2014	DiazinonO-analog	962-58-3	12.8		C7H9N2O	137.07094	137.07149
2014	DiazinonO-analog	962-58-3	12.8		C8H10N2	134.08385	134.08440
2014	Dibutylchlorendate	1770-80-5	22.6	497.94930	C17H20O4Cl6		
2014	Dibutylchlorendate	1770-80-5	22.6		C9H4O4Cl6	385.82353	385.82408
2014	Dibutylchlorendate	1770-80-5	22.6		C9H3O3Cl6	368.82079	368.82134

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Dibutylchloredate	1770-80-5	22.6		C9H3O4Cl4	314.87800	314.87854
2014	Dibutylchloredate	1770-80-5	22.6		C7H2Cl5	260.85937	260.85991
2014	Dibutylchloredate	1770-80-5	22.6		C5Cl5	234.84372	234.84426
2014	Dicapthon	2463-84-5	14.3	296.96280	C8H9NO5PSCI		
2014	Dicapthon	2463-84-5	14.3		C7C(13)H9NO5PS	262.99671	262.99726
2014	Dicapthon	2463-84-5	14.3		C8H9NO5PS	261.99336	261.99391
2014	Dicapthon	2463-84-5	14.3		C8H9O3PS	216.00045	216.00100
2014	Dicapthon	2463-84-5	14.3		C2H6O2PS	124.98206	124.98261
2017	Dichlobenil	1194-65-6	7.6	170.96425	C7H3Cl2N		
2017	Dichlobenil	1194-65-6	7.6		C7H3Cl(37Cl)N	172.96076	172.96130
2017	Dichlobenil	1194-65-6	7.6		C7H3Cl2N	170.96371	170.96425
2017	Dichlobenil	1194-65-6	7.6		C7H2N	100.01818	100.01872
2017	Dichlofenthion	97-17-6	12.5	313.97001	C10H13Cl2O3PS		
2017	Dichlofenthion	97-17-6	12.5		C10H13ClO3PS	279.00061	279.00116
2017	Dichlofenthion	97-17-6	12.5		C2ClN5O4S	224.93540	224.93595
2017	Dichlofenthion	97-17-6	12.5		C6H5ClO3PS	222.93801	222.93855
2017	Dichlofenthion	97-17-6	12.5		C6H4Cl(37Cl)O	163.96042	163.96097
2017	Dichlofenthion	97-17-6	12.5		C6H4Cl2O	161.96337	161.96392
2017	Dichlofenthion	97-17-6	12.5		H2O2PS	96.95076	96.95131
2015	Dichlone	117-80-6	11.7	225.95880	C10H4O2Cl2		
2015	Dichlone	117-80-6	11.7		C10H4O2Cl	190.98943	190.98998
2015	Dichlone	117-80-6	11.7		C9H4OCl	162.99452	162.99507
2015	Dichlone	117-80-6	11.7		C8H4Cl	134.99960	135.00015
2014	Dichlormid	37764-25-3	7.7	207.02180	C8H11NOCl2		
2014	Dichlormid	37764-25-3	7.7		C8H11NOCl	172.05237	172.05292
2014	Dichlormid	37764-25-3	7.7		C5H6NOCl2	165.98210	165.98264
2014	Dichlormid	37764-25-3	7.7		C8H10NO	136.07569	136.07624
2014	Dichlormid	37764-25-3	7.7		C7H10NO	124.07569	124.07624
2014	Dichlorophen	97-23-4	8.3	268.00580	C13H10O2Cl2		
2014	Dichlorophen	97-23-4	8.3		C13H10O2Cl	233.03638	233.03693
2014	Dichlorophen	97-23-4	8.3		C13H8OCl	215.02582	215.02637
2014	Dichlorophen	97-23-4	8.3		C7H6OCl	141.01017	141.01072
2014	Dichlorophen	97-23-4	8.3		C6H5OCl	128.00234	128.00289
2014	Dichlorprop-methylester	57153-17-0	9.6	248.00070	C10H10O3Cl2		
2014	Dichlorprop-methylester	57153-17-0	9.6		C8H7OCl2	188.98685	188.98740
2014	Dichlorprop-methylester	57153-17-0	9.6		C6H4OCl2	161.96337	161.96392
2015	Diclobutrazol	75736-33-3	17.2	327.09050	C15H19N3OCl2		
2015	Diclobutrazol	75736-33-3	17.2		C11H10N3OCl2	270.01954	270.02009
2015	Diclobutrazol	75736-33-3	17.2		C7H5Cl2	158.97628	158.97683

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2015	Diclofop-methyl	51338-27-3	20.1	340.02690	C16H14O4Cl2		
2015	Diclofop-methyl	51338-27-3	20.1		C14H11O2Cl2	281.01306	281.01361
2015	Diclofop-methyl	51338-27-3	20.1		C12H8O2Cl2	253.98959	253.99014
2015	Diclofop-methyl	51338-27-3	20.1		C12H7O2Cl2	252.98176	252.98231
2018	Dicrotophos	141-66-2	10.0	237.07661	C8H16NO5P		
2018	Dicrotophos	141-66-2	10.0		C2H6O3P	109.00491	109.00546
2018	Dicrotophos	141-66-2	10.0		C3H6NO	72.04439	72.04494
2018	Dicrotophos	141-66-2	10.0		C6H10O5P	193.02604	193.02659
2024	Dieldrin	60-57-1	17.9	377.87060	C12H8OCl6		
2024	Dieldrin	60-57-1	17.9		C12H8OCl5	342.90120	342.90180
2024	Dieldrin	60-57-1	17.9		C8H4Cl5	274.87500	274.87560
2024	Dieldrin	60-57-1	17.9		C7H2Cl5	260.85940	260.85990
2024	Dieldrin	60-57-1	17.9		C7H2Cl4(35)Cl(37)1	262.85640	262.85700
2024	Dieldrin	60-57-1	17.9		C7H2Cl3(35)Cl(37)2	264.85350	264.85400
2024	Difenoconazole	119446-68-3	29.30/29.39	405.06470	C19H17N3O3Cl2		
2024	Difenoconazole	119446-68-3	29.30/29.39		C16H13O3Cl2	323.02360	323.02420
2024	Difenoconazole	119446-68-3	29.30/29.39		C12H12N3O2Cl	265.06130	265.06180
2024	Difenoconazole	119446-68-3	29.30/29.39		C13H7O2Cl2	264.98180	264.98230
2024	Difenoconazole	119446-68-3	29.30/29.39		C12H7OCl	202.01800	202.01850
2024	Difenoconazole	119446-68-3	29.30/29.39		C6H9N3O	139.07400	139.07460
2017	Difenoxyuron	14214-32-5	13.9	286.13174	C16H18N2O3		
2017	Difenoxyuron	14214-32-5	13.9		C14H11NO3	241.07335	241.07389
2017	Difenoxyuron	14214-32-5	13.9		C13H8NO3	226.04987	226.05042
2017	Difenoxyuron	14214-32-5	13.9		C12H8NO2	198.05496	198.05550
2018	Diflufenican	83164-33-4	20.1	394.07407	C19H11F5N2O2		
2018	Diflufenican	83164-33-4	20.1		C13H7F3NO2	266.04234	266.04289
2018	Diflufenican	83164-33-4	20.1		C19H11F5N2O2	394.07352	394.07407
2018	Diflufenican	83164-33-4	20.1		C13H6F2N2O	246.03611	246.03666
2017	Dimefuron	34205-21-5	15.1	338.11457	C15H19ClN4O3		
2017	Dimefuron	34205-21-5	15.1		C13H12ClN3O3	293.05617	293.05672
2017	Dimefuron	34205-21-5	15.1		C12H12ClN3O	249.06634	249.06689
2017	Dimefuron	34205-21-5	15.1		C7H3(37Cl)N2O	167.98989	167.99044
2017	Dimefuron	34205-21-5	15.1		C7H3ClN2O	165.99284	165.99339
2017	Dimefuron	34205-21-5	15.1		C7H3N2O	131.02399	131.02454
2017	Dimethachlor	50563-36-5	12.5	255.10261	C13H18ClNO2		
2017	Dimethachlor	50563-36-5	12.5		C10H12ClNO	197.06019	197.06074
2017	Dimethachlor	50563-36-5	12.5		C9H12N	134.09643	134.09697
2017	Dimethachlor	50563-36-5	12.5		C9H10N	132.08078	132.08132
2017	Dimethachlor	50563-36-5	12.5		C9H10NO	148.07569	148.07624

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Dimethenamid	87674-68-8	12.6	275.07470	C12H18NO2SCI		
2014	Dimethenamid	87674-68-8	12.6		C10H13NOSCI	230.04009	230.04064
2014	Dimethenamid	87674-68-8	12.6		C8H10NOSCI	203.01661	203.01716
2014	Dimethenamid	87674-68-8	12.6		C8H12NS	154.06850	154.06905
2018	Dimethirimol	5221-53-4	12.3	209.15281	C11H19N3O		
2018	Dimethirimol	5221-53-4	12.3		C11H19N3O	209.15226	209.15281
2018	Dimethirimol	5221-53-4	12.3		C8H12N3O	166.09749	166.09804
2018	Dimethirimol	5221-53-4	12.3		C5H6NO	96.04439	96.04494
2018	Dimethomorph	110488-70-5	30.15\30.64	387.12374	C21H22ClNO4		
2018	Dimethomorph	110488-70-5	30.15\30.64		C21H22ClNO4	387.12319	387.12374
2018	Dimethomorph	110488-70-5	30.15\30.64		C16H5(37Cl)O2	301.06260	301.06315
2018	Dimethomorph	110488-70-5	30.15\30.64		C17H14ClO3	301.06260	301.06315
2018	Dimethomorph	110488-70-5	30.15\30.64		C16H5ClO2	274.07551	274.07606
2018	Dimethomorph	110488-70-5	30.15\30.64		C9H9O3	165.05462	165.05517
2018	Dimoxystrobin	149961-52-4	21.1	326.16304	C19H22N2O3		
2018	Dimoxystrobin	149961-52-4	21.1		C8H6N	116.04948	116.05002
2018	Dimoxystrobin	149961-52-4	21.1		C7H5	89.03858	89.03913
2018	Dimoxystrobin	149961-52-4	21.1		C11H13N2O2	205.09715	205.09770
2018	Diniconazole	83657-24-3	18.1	325.07487	C15H17Cl2N3O		
2018	Diniconazole	83657-24-3	18.1		C11H8Cl2N3O	268.00389	268.00444
2018	Diniconazole	83657-24-3	18.1		C11H7ClN3O	232.02722	232.02777
2018	Diniconazole	83657-24-3	18.1		C8H5Cl	136.00743	136.00798
2017	Dinoseb	88-85-7	11.7	240.07462	C10H12N2O5		
2017	Dinoseb	88-85-7	11.7		C8H7N2O5	211.03495	211.03550
2017	Dinoseb	88-85-7	11.7		C8H5NO3	163.02639	163.02694
2017	Dinoseb	88-85-7	11.7		C8H5NO2	147.03148	147.03203
2018	Dinoterb	1420-07-1	12.2	240.07462	C10H12N2O5		
2018	Dinoterb	1420-07-1	12.2		C10H12N2O5	240.07408	240.07462
2018	Dinoterb	1420-07-1	12.2		C9H9N2O5	225.05060	225.05115
2018	Dinoterb	1420-07-1	12.2		C9H7N3O	173.05836	173.05891
2018	Dinoterb	1420-07-1	12.2		C9H7O	131.04914	131.04969
2018	Dinoterb	1420-07-1	12.2		C9H7NO2	161.04713	161.04768
2018	Dinoterb	1420-07-1	12.2		C8H7	103.05423	103.05478
2017	Dioxacarb	6988-21-2	12.3	223.08446	C11H13NO4		
2017	Dioxacarb	6988-21-2	12.3		C9H10O3	166.06245	166.06299
2017	Dioxacarb	6988-21-2	12.3		C9H9O3	165.05462	165.05517
2017	Dioxacarb	6988-21-2	12.3		C7H6O2	122.03623	122.03678
2017	Dioxacarb	6988-21-2	12.3		C7H5O2	121.02841	121.02895
2018	Dioxathion	78-34-2	25.1	456.00875	C12H26O6P2S4		

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Dioxathion	78-34-2	25.1		C8H16O4PS2	271.02222	271.02277
2018	Dioxathion	78-34-2	25.1		C4H10O2PS2	184.98544	184.98599
2018	Dioxathion	78-34-2	25.1		C4H10O2PS	153.01337	153.01392
2015	Diphenamid	957-51-7	14.5	239.13100	C16H17NO		
2015	Diphenamid	957-51-7	14.5		C13H11	167.08553	167.08608
2015	Diphenamid	957-51-7	14.5		C13H9	165.06988	165.07043
2015	Diphenamid	957-51-7	14.5		C12H8	152.06205	152.06260
2015	Diphenamid	957-51-7	14.5		C3H6NO	72.04439	72.04494
2014	Dithiopyr	97886-45-8	13.4	401.05430	C15H16NO2S2F5		
2014	Dithiopyr	97886-45-8	13.4		C14H13NO2SF5	354.05817	354.05872
2014	Dithiopyr	97886-45-8	13.4		C13H9NO2F5	306.05480	306.05535
2014	Dithiopyr	97886-45-8	13.4		C13H8NO2F4	286.04857	286.04912
2015	Dodemorph	1593-77-7	14.4	281.27190	C18H35NO		
2015	Dodemorph	1593-77-7	14.4		C15H28NO	238.21654	238.21709
2015	Dodemorph	1593-77-7	14.4		C9H16NO	154.12264	154.12319
2015	Dodemorph	1593-77-7	14.4		C8H15NO	141.11482	141.11536
2017	Edifenphos	17109-49-8	19.2	310.02511	C14H15O2PS2		
2017	Edifenphos	17109-49-8	19.2		C6H6O2PS	172.98206	172.98261
2017	Edifenphos	17109-49-8	19.2		C8H10S	138.04977	138.05032
2017	Edifenphos	17109-49-8	19.2		C6H6S	110.01847	110.01902
2017	Edifenphos	17109-49-8	19.2		C6H5S	109.01065	109.01120
2018	EPTC	759-94-4	8.4	189.11874	C9H19NOS		
2018	EPTC	759-94-4	8.4		C7H14NOS	160.07906	160.07961
2018	EPTC	759-94-4	8.4		C6H14NS	132.08415	132.08470
2018	EPTC	759-94-4	8.4		C7H14NO	128.10699	128.10754
2018	EPTC	759-94-4	8.4		C4H8NO	86.06004	86.06059
2017	Esprocarb	85785-20-2	13.5	265.15004	C15H23NOS		
2017	Esprocarb	85785-20-2	13.5		C12H16NOS	222.09471	222.09526
2017	Esprocarb	85785-20-2	13.5		C11H16N	162.12773	162.12828
2017	Esprocarb	85785-20-2	13.5		C7H7	91.05423	91.05478
2015	Etaconazole	60207-93-4	18.2	327.05410	C14H15N3O2Cl2		
2015	Etaconazole	60207-93-4	18.2		C11H11O2Cl2	245.01306	245.01361
2015	Etaconazole	60207-93-4	18.2		C7H5O2Cl2	190.96611	190.96666
2015	Etaconazole	60207-93-4	18.2		C7H3OCl2	172.95555	172.95610
2017	Ethalfuralin	55283-68-6	9.9	333.09364	C13H14F3N3O4		
2017	Ethalfuralin	55283-68-6	9.9		C13H13F3N3O3	316.09035	316.09090
2017	Ethalfuralin	55283-68-6	9.9		C10H9F3N3O4	292.05397	292.05452
2017	Ethalfuralin	55283-68-6	9.9		C10H9F3N3O3	276.05905	276.05960
2017	Ethalfuralin	55283-68-6	9.9		C8H5F3N3O4	264.02267	264.02322

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Etoazole	153233-91-1	21.5	359.16969	C21H23F2NO2		
2017	Etoazole	153233-91-1	21.5		C19H18F2NO2	330.13001	330.13056
2017	Etoazole	153233-91-1	21.5		C18H16F2NO	300.11945	300.12000
2017	Etoazole	153233-91-1	21.5		C13H18NO	204.13829	204.13884
2017	Etoazole	153233-91-1	21.5		C13H15O	187.11174	187.11229
2017	Etoazole	153233-91-1	21.5		C7H3F2O	141.01465	141.01520
2018	Etridiazole	2593-15-9	8.3	245.91882	C5H5Cl3N2OS		
2018	Etridiazole	2593-15-9	8.3		C3HCl2N2OS	182.91812	182.91867
2018	Etridiazole	2593-15-9	8.3		C5H5Cl2N2OS	210.94942	210.94997
2018	Etridiazole	2593-15-9	8.3		C5H5(35Cl)ClN2OS	212.94647	212.94702
2018	Etrimfos	38260-54-7	11.8	292.06467	C10H17N2O4PS		
2018	Etrimfos	38260-54-7	11.8		C9H13N2O2	181.09715	181.09770
2018	Etrimfos	38260-54-7	11.8		C10H17N2O4PS	292.06412	292.06467
2018	Etrimfos	38260-54-7	11.8		C7H9N2O2	153.06585	153.06640
2018	Famoxadone	131807-57-3	29.8	374.12666	C22H18N2O4		
2018	Famoxadone	131807-57-3	29.8		C21H18N2O2	330.13628	330.13683
2018	Famoxadone	131807-57-3	29.8		C15H12O2	224.08318	224.08373
2018	Famoxadone	131807-57-3	29.8		C14H12O	196.08827	196.08882
2018	Fenamiphos	22224-92-6	17.1	303.10580	C13H22NO3PS		
2018	Fenamiphos	22224-92-6	17.1		C13H22NO3PS	303.10526	303.10580
2018	Fenamiphos	22224-92-6	17.1		C12H19NO3PS	288.08178	288.08233
2018	Fenamiphos	22224-92-6	17.1		C10H15NO3PS	260.05048	260.05103
2018	Fenamiphos	22224-92-6	17.1		C10H12O3PS	243.02393	243.02448
2018	Fenamiphos	22224-92-6	17.1		C8H10O3PS	217.00828	217.00883
2018	Fenamiphos	22224-92-6	17.1		C8H10OS	154.04469	154.04524
2014	Fenobucarb	3766-81-2	9.5	207.12590	C12H17NO2		
2014	Fenobucarb	3766-81-2	9.5		C10H14O	150.10392	150.10447
2014	Fenobucarb	3766-81-2	9.5		C8H9O	121.06479	121.06534
2014	Fenoprop-methylester	4841-20-7	11.1	281.96170	C10H9O3Cl3		
2014	Fenoprop-methylester	4841-20-7	11.1		C8H6OCl3	222.94787	222.94842
2014	Fenoprop-methylester	4841-20-7	11.1		C6H3OCl3	195.92440	195.92495
2017	Fenothiocarb	62850-32-2	15.9	253.11365	C13H19NO2S		
2017	Fenothiocarb	62850-32-2	15.9		C7H14NOS	160.07906	160.07961
2017	Fenothiocarb	62850-32-2	15.9		C6H6O	94.04132	94.04187
2017	Fenothiocarb	62850-32-2	15.9		C4H8S	88.03412	88.03467
2017	Fenothiocarb	62850-32-2	15.9		C3H6NO	72.04439	72.04494
2017	Fenoxaprop-ethyl	66441-23-4	23.9	361.07170	C18H16ClNO5		
2017	Fenoxaprop-ethyl	66441-23-4	23.9		C18H16ClNO5	361.07115	361.07170
2017	Fenoxaprop-ethyl	66441-23-4	23.9		C15H11(37Cl)NO3	290.03925	290.03980

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Fenoxaprop-ethyl	66441-23-4	23.9		C15H11ClNO3	288.04220	288.04275
2017	Fenoxaprop-ethyl	66441-23-4	23.9		C13H8ClNO3	261.01872	261.01927
2018	Fenoxaprop-p-ethyl	71283-80-2	23.9	361.07170	C18H16ClNO5		
2018	Fenoxaprop-p-ethyl	71283-80-2	23.9		C15H11ClNO3	288.04220	288.04275
2018	Fenoxaprop-p-ethyl	71283-80-2	23.9		C18H16ClNO5	361.07115	361.07170
2018	Fenoxaprop-p-ethyl	71283-80-2	23.9		C13H8ClNO3	261.01872	261.01927
2017	Fenpiclonil	74738-17-3	20.7	235.99080	C11H6Cl2N2		
2017	Fenpiclonil	74738-17-3	20.7		C11H6Cl(37Cl)N2	237.98731	237.98785
2017	Fenpiclonil	74738-17-3	20.7		C11H6Cl2N2	235.99026	235.99080
2017	Fenpiclonil	74738-17-3	20.7		C11H6ClN2	201.02140	201.02195
2017	Fenpiclonil	74738-17-3	20.7		C10H5ClN	174.01050	174.01105
2018	Fenson	80-38-6	15.2	267.99609	C12H9ClO3S		
2018	Fenson	80-38-6	15.2		C12H9ClO3S	267.99555	267.99609
2018	Fenson	80-38-6	15.2		C6H5O2S	141.00048	141.00103
2018	Fenson	80-38-6	15.2		C6H4ClO	126.99452	126.99507
2018	Fenson	80-38-6	15.2		C5H4Cl	98.99961	99.00015
2018	Fenson	80-38-6	15.2		C6H5	77.03858	77.03913
2015	Fensulfothion	115-90-2	18.0	308.03060	C11H17O4PS2		
2015	Fensulfothion	115-90-2	18.0		C10H14O4PS2	293.00656	293.00711
2015	Fensulfothion	115-90-2	18.0		C11H17O3PS2	292.03512	292.03567
2015	Fensulfothion	115-90-2	18.0		C9H13O3PS2	264.00382	264.00437
2015	Fensulfothion	115-90-2	18.0		C7H9O3PS2	235.97252	235.97307
2015	Fensulfothion	115-90-2	18.0		C7H8S2	156.00619	156.00674
2015	Fensulfothion	115-90-2	18.0		C6H5O2S	141.00048	141.00103
2015	Fensulfothion	115-90-2	18.0		C3H9O2PS	140.00554	140.00609
2015	Fensulfothion-sulfon	14255-72-2	18.7	324.02550	C11H17O5PS2		
2015	Fensulfothion-sulfon	14255-72-2	18.7		C7H8O4PS	218.98754	218.98809
2015	Fensulfothion-sulfon	14255-72-2	18.7		C7H8O2S2	187.99602	187.99657
2015	Fensulfothion-sulfon	14255-72-2	18.7		C6H5O3S	156.99539	156.99594
2017	Flonicamid	158062-67-0	9.4	229.04630	C9H6F3N3O		
2017	Flonicamid	158062-67-0	9.4		C7H3F3NO	174.01613	174.01667
2017	Flonicamid	158062-67-0	9.4		C7H3F3N2	172.02428	172.02483
2017	Flonicamid	158062-67-0	9.4		C6H3F3N	146.02121	146.02176
2024	Florpyrauxifen-benzyl	1390661-72-9	18.7	438.03495	C20H14N2O3Cl2F2		
2024	Florpyrauxifen-benzyl	1390661-72-9	18.7		C12H8N2OCl2F2	303.99760	303.99820
2024	Florpyrauxifen-benzyl	1390661-72-9	18.7		C12H8N2OClF2Cl(37)	305.99470	305.99520
2024	Florpyrauxifen-benzyl	1390661-72-9	18.7		C10H5N2Cl2F2	260.97920	260.97980
2024	Florpyrauxifen-benzyl	1390661-72-9	18.7		C10H5N2F2	191.04150	191.04210
2018	Fluazinam	79622-59-6	15.1	463.95138	C13H4Cl2F6N4O4		

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Fluazinam	79622-59-6	15.1		C13H4Cl2F6N3O2	417.95793	417.95848
2018	Fluazinam	79622-59-6	15.1		C13H4Cl2F6N2	371.96502	371.96557
2018	Fluazinam	79622-59-6	15.1		C13H4(37Cl)ClF6N3O ₂	419.95498	419.95553
2014	Fluchloralin	33245-39-5	11.6	355.05470	C12H13N3O4ClF3		
2014	Fluchloralin	33245-39-5	11.6		C10H8N3O4ClF3	326.01500	326.01554
2014	Fluchloralin	33245-39-5	11.6		C11H11N3O4F3	306.06962	306.07017
2014	Fluchloralin	33245-39-5	11.6		C8H5N3O4F3	264.02267	264.02322
2018	Flufenacet	142459-58-3	14.1	363.06646	C14H13F4N3O2S		
2018	Flufenacet	142459-58-3	14.1		C9H10FN	151.07918	151.07973
2018	Flufenacet	142459-58-3	14.1		C5H2F3N2O2S	210.97836	210.97891
2018	Flufenacet	142459-58-3	14.1		C8H7FN	136.05570	136.05625
2018	Flumetralin	62924-70-3	16.2	421.04525	C16H12ClF4N3O4		
2018	Flumetralin	62924-70-3	16.2		C7H5ClF	143.00583	143.00638
2018	Flumetralin	62924-70-3	16.2		C7H5(37Cl)F	145.00288	145.00343
2018	Flumetralin	62924-70-3	16.2		C16H11ClF4N3O3	404.04196	404.04251
2017	Flumioxazin	103361-09-7	27.9	354.10159	C19H15FN2O4		
2017	Flumioxazin	103361-09-7	27.9		C9H15F2N7O6	355.10464	355.10519
2017	Flumioxazin	103361-09-7	27.9		C19H15FN2O4	354.10104	354.10159
2017	Flumioxazin	103361-09-7	27.9		C18H15FN2O3	326.10612	326.10667
2017	Flumioxazin	103361-09-7	27.9		C15H12FN2O3	287.08265	287.08320
2017	Flumioxazin	103361-09-7	27.9		C13H8FN2O3	259.05135	259.05190
2017	Flumioxazin	103361-09-7	27.9		C13H6N	176.04948	176.05002
2017	Fluometuron	2164-17-2	9.7	232.08235	C10H11F3N2O		
2017	Fluometuron	2164-17-2	9.7		C10H11F3N2O	232.08180	232.08235
2017	Fluometuron	2164-17-2	9.7		C8H4F3NO	187.02395	187.02450
2017	Fluometuron	2164-17-2	9.7		C7H4F3N	159.02904	159.02958
2017	Fluometuron	2164-17-2	9.7		C3H6NO	72.04439	72.04494
2014	Fluoroglycofen-ethyl	77501-90-7	23.7	447.03330	C18H13NO7ClF3		
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C14H7NO4ClF3	345.00102	345.00157
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C14H6NO4ClF3	343.99320	343.99375
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C14H7O3ClF3	315.00303	315.00358
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C13H7NO2ClF3	301.01119	301.01174
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C8H3O2ClF3	222.97682	222.97737
2014	Fluoroglycofen-ethyl	77501-90-7	23.7		C14H7O2	207.04406	207.04460
2024	Fluopicolide	239110-15-7	20.3	381.96543	C14H8N2OCl3F3		
2024	Fluopicolide	239110-15-7	20.3		C14H8N2OCl2F3	346.99600	346.99660
2024	Fluopicolide	239110-15-7	20.3		C7H5N2ClF3	209.00880	209.00930
2024	Fluopicolide	239110-15-7	20.3		C7H5N2F3Cl(37)	211.00580	211.00640
2024	Fluopicolide	239110-15-7	20.3		C7H3OCl2	172.95550	172.95610

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Fluridone	59756-60-4	27.4	329.10270	C19H14NOF3		
2014	Fluridone	59756-60-4	27.4		C19H13NOF3	328.09438	328.09492
2018	Flurochloridone	61213-25-0	14.3	311.00915	C12H10Cl2F3NO		
2018	Flurochloridone	61213-25-0	14.3		C8H4F3NO	187.02395	187.02450
2018	Flurochloridone	61213-25-0	14.3		C8H7F3N	174.05251	174.05306
2018	Flurochloridone	61213-25-0	14.3		C12H10Cl2F3NO	311.00861	311.00915
2014	Flurprimidol	56425-91-3	12.4	312.10860	C15H15N2O2F3		
2014	Flurprimidol	56425-91-3	12.4		C12H8N2O2F3	269.05324	269.05379
2014	Flurprimidol	56425-91-3	12.4		C8H4O2F3	189.01579	189.01634
2014	Flurprimidol	56425-91-3	12.4		C5H3N2O	107.02399	107.02454
2018	Flurtamone	96525-23-4	22.2	333.09766	C18H14F3NO2		
2018	Flurtamone	96525-23-4	22.2		C8H10N	120.08078	120.08132
2018	Flurtamone	96525-23-4	22.2		C18H14F3NO2	333.09711	333.09766
2018	Flurtamone	96525-23-4	22.2		C10H8F3N	199.06033	199.06088
2024	Fluvalinate-tau	102851-06-9	28.8	502.12710	C26H22N2O3ClF3		
2024	Fluvalinate-tau	102851-06-9	28.8		C11H12NCIF3	250.06050	250.06100
2024	Fluvalinate-tau	102851-06-9	28.8		C11H12NF3Cl(37)	252.05750	252.05810
2024	Fluvalinate-tau	102851-06-9	28.8		C8H6NCIF3	208.01350	208.01410
2024	Fluvalinate-tau	102851-06-9	28.8		C13H9O	181.06480	181.06530
2018	Fluxapyroxad	907204-31-3	21.3	381.09005	C18H12F5N3O		
2018	Fluxapyroxad	907204-31-3	21.3		C6H5F2N2O	159.03645	159.03699
2018	Fluxapyroxad	907204-31-3	21.3		C18H12F5N3O	381.08950	381.09005
2018	Fluxapyroxad	907204-31-3	21.3		C12H6F3N	221.04468	221.04523
2018	Fuberidazole	3878-19-1	12.7	184.06366	C11H8N2O		
2018	Fuberidazole	3878-19-1	12.7		C11H8N2O	184.06311	184.06366
2018	Fuberidazole	3878-19-1	12.7		C10H8N2	156.06820	156.06875
2018	Fuberidazole	3878-19-1	12.7		C10H7N2	155.06037	155.06092
2017	Furalaxyl	57646-30-7	15.4	301.13141	C17H19NO4		
2017	Furalaxyl	57646-30-7	15.4		C15H16NO2	242.11756	242.11810
2017	Furalaxyl	57646-30-7	15.4		C8H10NO2	152.07061	152.07115
2017	Furalaxyl	57646-30-7	15.4		C5H3O2	95.01276	95.01330
2017	Furathiocarb	65907-30-4	22.2	382.15624	C18H26N2O5S		
2017	Furathiocarb	65907-30-4	22.2		C10H10O2S	194.03960	194.04015
2017	Furathiocarb	65907-30-4	22.2		C10H12O2	164.08318	164.08373
2017	Furathiocarb	65907-30-4	22.2		C10H11O2	163.07536	163.07591
2017	Furathiocarb	65907-30-4	22.2		C9H11O	135.08044	135.08099
2017	Furathiocarb	65907-30-4	22.2		C7OH7	107.04914	107.04969
2017	Furilazole	121776-33-8	10.8	277.02725	C11H13Cl2NO3		
2017	Furilazole	121776-33-8	10.8		C10H10Cl2NO3	262.00323	262.00377

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Furilazole	121776-33-8	10.8		C8H8Cl(37Cl)NO2	221.98971	221.99026
2017	Furilazole	121776-33-8	10.8		C8H8Cl2NO2	219.99266	219.99321
2017	Furilazole	121776-33-8	10.8		C6H9ClNO	146.03672	146.03727
2017	Hexaflumuron	86479-06-3	8.2	459.98162	C16H8Cl2F6N2O3		
2017	Hexaflumuron	86479-06-3	8.2		C9H3Cl(37Cl)F4NO2	304.94420	304.94475
2017	Hexaflumuron	86479-06-3	8.2		C9H3Cl2F4NO2	302.94715	302.94770
2017	Hexaflumuron	86479-06-3	8.2		C7H2Cl(37Cl)NO2	203.94276	203.94331
2017	Hexaflumuron	86479-06-3	8.2		C7H2Cl2NO2	201.94571	201.94626
2017	Hexaflumuron	86479-06-3	8.2		C6H2Cl(37Cl)NO	175.94785	175.94839
2017	Hexaflumuron	86479-06-3	8.2		C6H2Cl2NO	173.95080	173.95134
2024	Iodofenfos	74115-24-5	17.3	411.83483	C8H8O3PSCl2I		
2024	Iodofenfos	74115-24-5	17.3		C8H8O3PSClI	376.86600	376.86650
2024	Iodofenfos	74115-24-5	17.3		C8H8O3PSCl(37Cl)I	378.86300	378.86360
2024	Iodofenfos	74115-24-5	17.3		C2H6O2PS	124.98210	124.98260
2014	Imibenconazole	86598-92-7	30.9	409.99270	C17H13N4SCl3		
2014	Imibenconazole	86598-92-7	30.9		C17H13N4SCl2	375.02325	375.02380
2014	Imibenconazole	86598-92-7	30.9		C10H7N4Cl2	253.00423	253.00478
2014	Imibenconazole	86598-92-7	30.9		C7H3NCl2	170.96371	170.96426
2014	Imibenconazole	86598-92-7	30.9		C7H6Cl	125.01525	125.01580
2015	Iprobenfos	26087-47-8	12.0	288.09490	C13H21O3PS		
2015	Iprobenfos	26087-47-8	12.0		C7H9O3PS	204.00045	204.00100
2015	Iprobenfos	26087-47-8	12.0		C7H7	91.05423	91.05478
2015	Isazofos (Miral)	42509-80-8	11.8	313.04170	C9H17N3O3PSCl		
2015	Isazofos (Miral)	42509-80-8	11.8		C7H13N3O3PSCl	285.00983	285.01038
2015	Isazofos (Miral)	42509-80-8	11.8		C5H9N3O3PSCl	256.97853	256.97908
2015	Isazofos (Miral)	42509-80-8	11.8		C5H9N3OCl	162.04287	162.04342
2015	Isazofos (Miral)	42509-80-8	11.8		C5H8N3OCl	161.03504	161.03559
2015	Isazofos (Miral)	42509-80-8	11.8		C2H2N3OCl	118.98809	118.98864
2015	isocarbamid (Azolamide)	30979-48-7	11.2	185.11640	C8H15N3O2		
2015	isocarbamid (Azolamide)	30979-48-7	11.2		C5H8N3O2	142.06110	142.06165
2015	isocarbamid (Azolamide)	30979-48-7	11.2		C4H8N3O2	130.06110	130.06165
2015	isocarbamid (Azolamide)	30979-48-7	11.2		C5H8NO	98.06004	98.06059
2015	Isocarbophos (Isocarbofos)	24353-61-5	14.3	289.05380	C11H16NO4PS		
2015	Isocarbophos (Isocarbofos)	24353-61-5	14.3		C8H9NO3PS	230.00353	230.00408
2015	Isocarbophos (Isocarbofos)	24353-61-5	14.3		C7H4OS	135.99774	135.99829
2015	Isocarbophos (Isocarbofos)	24353-61-5	14.3		C7H5O2	121.02841	121.02895
2015	Isocarbophos (Isocarbofos)	24353-61-5	14.3		C7H4O2	120.02058	120.02113
2017	Isodrin	465-73-6	14.7	361.87572	C12H8Cl6		
2017	Isodrin	465-73-6	14.7		C7H2Cl3(37Cl)2	264.85347	264.85401

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2017	Isodrin	465-73-6	14.7		C7H2Cl4(37Cl)	262.85642	262.85696
2017	Isodrin	465-73-6	14.7		C7H2Cl5	260.85937	260.85991
2017	Isodrin	465-73-6	14.7		C7H4Cl(37Cl)2	196.93141	196.93196
2017	Isodrin	465-73-6	14.7		C7H4Cl2(37Cl)	194.93436	194.93491
2017	Isodrin	465-73-6	14.7		C7H4Cl3	192.93731	192.93786
2018	Isofenphos	25311-71-1	15.2	345.11637	C15H24NO4PS		
2018	Isofenphos	25311-71-1	15.2		C7H5O2	121.02841	121.02896
2018	Isofenphos	25311-71-1	15.2		C9H10O4P	213.03112	213.03167
2018	Isofenphos	25311-71-1	15.2		C7H6O4P	184.99982	185.00037
2018	Isoprocarb	2631-40-5	8.9	193.11028	C11H15NO2		
2018	Isoprocarb	2631-40-5	8.9		C8H9O	121.06479	121.06534
2018	Isoprocarb	2631-40-5	8.9		C9H12O	136.08827	136.08882
2018	Isoprocarb	2631-40-5	8.9		C8H7	103.05423	103.05478
2017	Isoxaben	82558-50-7	23.7	332.17361	C18H24N2O4		
2017	Isoxaben	82558-50-7	23.7		C9H9O3	165.05462	165.05517
2017	Isoxaben	82558-50-7	23.7		C8O3H6	150.03115	150.03169
2017	Isoxaben	82558-50-7	23.7		C6O2H3	107.01276	107.01330
2018	Isoxaflutole	141112-29-0	14.4	359.04391	C15H12F3NO4S		
2018	Isoxaflutole	141112-29-0	14.4		C14H8F3NO2	279.05016	279.05071
2018	Isoxaflutole	141112-29-0	14.4		C7H3F3O	160.01305	160.01360
2018	Isoxaflutole	141112-29-0	14.4		C13H7F3O2	252.03927	252.03981
2017	Isoxathion	18854-01-8	17.5	313.05377	C13H16NO4PS		
2017	Isoxathion	18854-01-8	17.5		C9H7NOS	177.02429	177.02484
2017	Isoxathion	18854-01-8	17.5		C8H4NO	130.02874	130.02929
2017	Isoxathion	18854-01-8	17.5		C7H5O	105.03349	105.03404
2017	Lenacil	2164-08-1	19.3	234.13683	C13H18N2O2		
2017	Lenacil	2164-08-1	19.3		C7H9N2O2	153.06585	153.06640
2017	Lenacil	2164-08-1	19.3		C7NO2H6	136.03931	136.03985
2017	Leptophos	21609-90-5	22.4	409.86996	C13H10BrCl2O2PS		
2017	Leptophos	21609-90-5	22.4		C13H10(81Br)(37Cl)O2PS	378.89556	378.89611
2017	Leptophos	21609-90-5	22.4		C13H10(81Br)ClO2PS	376.89851	376.89906
2017	Leptophos	21609-90-5	22.4		C13H10BrClO2PS	374.90055	374.90110
2017	Leptophos	21609-90-5	22.4		CH8CIP5S	241.87178	241.87233
2017	Leptophos	21609-90-5	22.4		C7H8OPS	171.00280	171.00335
2017	Leptophos	21609-90-5	22.4		C7H8O2P	155.02564	155.02619
2014	Lethane 384	112-56-1	8.8	203.09800	C9H17NO2S		
2014	Lethane 384	112-56-1	8.8		C5H8NOS	130.03211	130.03266
2014	Lethane 384	112-56-1	8.8		C5H9O2	101.05971	101.06026
2014	Lethane 384	112-56-1	8.8		C3H4NS	86.00590	86.00645

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Lethane 384	112-56-1	8.8		C2H4S	60.00282	60.00337
2014	Lethane 384	112-56-1	8.8		C4H9	57.06988	57.07043
2015	Mefenpyr-diethyl	135590-91-9	20.6	372.06440	C16H18N2O4Cl2		
2015	Mefenpyr-diethyl	135590-91-9	20.6		C13H13N2O2Cl2	299.03486	299.03541
2015	Mefenpyr-diethyl	135590-91-9	20.6		C11H7N2OCl2	252.99300	252.99354
2015	Mefenpyr-diethyl	135590-91-9	20.6		C10H9N2Cl2	227.01373	227.01428
2014	Mefluidide	53780-34-0	20.6	310.05990	C11H13N2O3SF3		
2014	Mefluidide	53780-34-0	20.6		C9H11N2O2SF3	268.04878	268.04933
2014	Mefluidide	53780-34-0	20.6		C10H13N2O	177.10224	177.10279
2014	Mefluidide	53780-34-0	20.6		C8H11N2	135.09168	135.09222
2017	Mepronil	55814-41-0	18.6	269.14158	C17H19NO2		
2017	Mepronil	55814-41-0	18.6		C17H19NO2	269.14103	269.14158
2017	Mepronil	55814-41-0	18.6		C14H10O2	210.06753	210.06808
2017	Mepronil	55814-41-0	18.6		C8H7O	119.04914	119.04969
2017	Mepronil	55814-41-0	18.6		C7H7	91.05423	91.05478
2014	Methabenzthiazuron	18691-97-9	10.1	221.06230	C10H11N3OS		
2014	Methabenzthiazuron	18691-97-9	10.1		C8H8N2S	164.04027	164.04082
2014	Methabenzthiazuron	18691-97-9	10.1		C8H7N2S	163.03245	163.03299
2014	Methabenzthiazuron	18691-97-9	10.1		C7H6NS	136.02155	136.02210
2014	Methabenzthiazuron	18691-97-9	10.1		C7H5NS	135.01372	135.01427
2014	Methabenzthiazuron	18691-97-9	10.1		C6H4S	108.00282	108.00337
2017	Methoprene	40596-69-8	15.5	310.25079	C19H34O3		
2017	Methoprene	40596-69-8	15.5		C6H7O2	111.04406	111.04460
2017	Methoprene	40596-69-8	15.5		C8H13	109.10118	109.10173
2017	Methoprene	40596-69-8	15.5		C8H11	107.08553	107.08608
2017	Methoprene	40596-69-8	15.5		C7H7	91.05423	91.05478
2017	Methoprene	40596-69-8	15.5		C6H9	81.06988	81.07043
2017	Methoprene	40596-69-8	15.5		C4H9O	73.06479	73.06534
2018	Metobromuron	3060-89-7	7.0	258.00039	C9H11BrN2O2		
2018	Metobromuron	3060-89-7	7.0		C7H4BrNO	196.94708	196.94763
2018	Metobromuron	3060-89-7	7.0		C6H4BrN	168.95216	168.95271
2018	Metobromuron	3060-89-7	7.0		C6H4N	90.03383	90.03437
2017	Metolachlor	51218-45-2	13.9	283.13391	C15H22ClNO2		
2017	Metolachlor	51218-45-2	13.9		C13H17ClNO	238.09932	238.09987
2017	Metolachlor	51218-45-2	13.9		C11H16N	162.12773	162.12828
2017	Metolachlor	51218-45-2	13.9		C10NH12	146.09643	146.09697
2018	Metrafenone	220899-03-6	23.8	408.05724	C19H21BrO5		
2018	Metrafenone	220899-03-6	23.8		C18H18BrO5	393.03321	393.03376
2018	Metrafenone	220899-03-6	23.8		C18H18BrO4	377.03830	377.03885

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Metrafenone	220899-03-6	23.8		C11H13O4	209.08084	209.08139
2017	Monuron	150-68-5	6.4	198.05599	C9H11ClN2O		
2017	Monuron	150-68-5	6.4		C7H4(37Cl)NO	154.99464	154.99519
2017	Monuron	150-68-5	6.4		C7H4ClNO	152.99759	152.99814
2017	Monuron	150-68-5	6.4		C6H4ClN	125.00268	125.00323
2017	Monuron	150-68-5	6.4		C6H4N	90.03383	90.03437
2024	Naptalam	132-66-1	23.2		C18H13NO3		
2024	Naptalam	132-66-1	23.2		C18H11NO2	273.07840	273.07898
2024	Naptalam	132-66-1	23.2		C17H10N	228.08080	228.08132
2024	Naptalam	132-66-1	23.2		C16H10	202.07770	202.07825
2017	Nicotine	54-11-5	7.6	162.11570	C10H14N2		
2017	Nicotine	54-11-5	7.6		C10H13N2	161.10733	161.10787
2017	Nicotine	54-11-5	7.6		C8H9N2	133.07603	133.07657
2017	Nicotine	54-11-5	7.6		C5H10N	84.08078	84.08132
2017	Nitrofen	1836-75-5	17.5	282.98030	C12H7Cl2NO3		
2017	Nitrofen	1836-75-5	17.5		C12H7Cl(37Cl)NO3	284.97680	284.97735
2017	Nitrofen	1836-75-5	17.5		C12H7Cl2NO3	282.97975	282.98030
2017	Nitrofen	1836-75-5	17.5		C12H7Cl2O2	252.98176	252.98231
2017	Nitrofen	1836-75-5	17.5		C12H7(37Cl)O	204.01504	204.01559
2017	Nitrofen	1836-75-5	17.5		C12H7ClO	202.01799	202.01854
2017	Nitrofen	1836-75-5	17.5		C10H7Cl	162.02308	162.02363
2017	Nitrofen	1836-75-5	17.5		C11H7	139.05423	139.05478
2014	Nitrothal-isopropyl	10552-74-6	14.3	295.10560	C14H17NO6		
2014	Nitrothal-isopropyl	10552-74-6	14.3		C11H12NO6	254.06591	254.06646
2014	Nitrothal-isopropyl	10552-74-6	14.3		C11H10NO5	236.05535	236.05590
2014	Nitrothal-isopropyl	10552-74-6	14.3		C8H6NO6	212.01896	212.01951
2014	Nitrothal-isopropyl	10552-74-6	14.3		C8H4NO5	194.00840	194.00895
2017	Novaluron	116714-46-6	7.8	492.01231	C17H9ClF8N2O4		
2017	Novaluron	116714-46-6	7.8		C6H6ClF8NO2	310.99538	310.99593
2017	Novaluron	116714-46-6	7.8		C9H6ClF6NO2	308.99858	308.99913
2017	Novaluron	116714-46-6	7.8		C6H5(37Cl)NO	144.00247	144.00302
2017	Novaluron	116714-46-6	7.8		C6H5ClNO	142.00542	142.00597
2017	Novaluron	116714-46-6	7.8		C5H5ClN	114.01050	114.01105
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6	198.04800	C6H15O3PS		
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		C2H8O3PS	142.99263	142.99318
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		C2H7O2PS	125.98989	125.99044
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		C4H10O2P	121.04129	121.04184
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		H4O3PS	114.96133	114.96188
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		H3O3PS	113.95350	113.95405

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		H2O2PS	96.95076	96.95131
2014	O.O.O-Triethylphosphorothioate	126-68-1	6.6		C2H6O2P	93.00999	93.01054
2024	Jodfenphos	18181-70-9	17.3	376.86653	C8H8O3PSCI2I	376.86600	376.86650
2024	Jodfenphos	18181-70-9	17.3		C8H8O3PSCII	378.86300	378.86360
2024	Jodfenphos	18181-70-9	17.3		C8H8O3PSCI(37)I	249.96150	249.96200
2024	Jodfenphos	18181-70-9	17.3		C8H8O3PSCI	124.98210	124.98260
2024	Jodfenphos	18181-70-9	17.3		C2H6O2PS	376.86600	376.86650
2014	Oryzalin	19044-88-3	13.9	346.09470	C12H18N4O6S		
2014	Oryzalin	19044-88-3	13.9		C10H13N4O6S	317.05503	317.05558
2014	Oryzalin	19044-88-3	13.9		C10H13N4O5S	301.06012	301.06067
2014	Oryzalin	19044-88-3	13.9		C7H7N4O6S	275.00808	275.00863
2014	Oryzalin	19044-88-3	13.9		C7H4N3O6S	257.98153	257.98208
2018	Oxadiargyl	39807-15-3	18.2	340.03815	C15H14Cl2N2O3		
2018	Oxadiargyl	39807-15-3	18.2		C8H5ClN	150.01050	150.01105
2018	Oxadiargyl	39807-15-3	18.2		C9H5Cl2NO	212.97427	212.97482
2018	Oxadiargyl	39807-15-3	18.2		C8H5Cl2N	184.97936	184.97991
2018	Oxasulfuron	144651-06-9	12.5	406.09471	C17H18N4O6S		
2018	Oxasulfuron	144651-06-9	12.5		C8H12NS	154.06850	154.06905
2018	Oxasulfuron	144651-06-9	12.5		C5H5N3O6	203.01729	203.01784
2018	Oxasulfuron	144651-06-9	12.5		C6H7S	111.02630	111.02685
2018	Oxyfluorfen	42874-03-3	17.2	361.03287	C15H11ClF3NO4		
2018	Oxyfluorfen	42874-03-3	17.2		C13H7F3O2	252.03927	252.03981
2018	Oxyfluorfen	42874-03-3	17.2		C13H6ClF3NO2	300.00337	300.00392
2018	Oxyfluorfen	42874-03-3	17.2		C15H11ClF3NO4	361.03232	361.03287
2018	Penflufen	494793-67-8	18.7	317.19034	C18H24FN3O		
2018	Penflufen	494793-67-8	18.7		C6H6FN2O	141.04587	141.04642
2018	Penflufen	494793-67-8	18.7		C15H17FN3O	274.13502	274.13557
2018	Penflufen	494793-67-8	18.7		C18H24FN3O	317.18979	317.19034
2024	Pinoxaden	243973-20-8	25.3	400.23566	C23H32N2O4		
2024	Pinoxaden	243973-20-8	25.3		C22H22N	300.17470	300.17520
2024	Pinoxaden	243973-20-8	25.3		C19H26O3	299.17540	299.17600
2014	Pentanochlor	2307-68-8	13.6	239.10770	C13H18NOCl		
2014	Pentanochlor	2307-68-8	13.6		C10H12NOCl	197.06019	197.06074
2014	Pentanochlor	2307-68-8	13.6		C7H8NCl	141.03398	141.03453
2018	Penthiopyrad	183675-82-3	18.4	359.12792	C16H20F3N3OS		
2018	Penthiopyrad	183675-82-3	18.4		C12H11F3N3OS	302.05694	302.05749
2018	Penthiopyrad	183675-82-3	18.4		C16H20F3N3OS	359.12737	359.12792
2018	Penthiopyrad	183675-82-3	18.4		C6H4F3N2O	177.02702	177.02757
2014	Pethoxamid	106700-29-2	15.5	295.13390	C16H22NO2Cl		

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2014	Pethoxamid	106700-29-2	15.5		C15H19NO2Cl	280.10988	280.11043
2014	Pethoxamid	106700-29-2	15.5		C16H22NO2	260.16451	260.16505
2014	Pethoxamid	106700-29-2	15.5		C13H15NOCl	236.08367	236.08422
2014	Pethoxamid	106700-29-2	15.5		C13H14NO2	216.10191	216.10245
2014	Pethoxamid	106700-29-2	15.5		C10H11	131.08553	131.08608
2018	Piperonylbutoxide	51-03-6	20.2	338.20933	C19H30O5		
2018	Piperonylbutoxide	51-03-6	20.2		C11H12O2	176.08318	176.08373
2018	Piperonylbutoxide	51-03-6	20.2		C9H9O2	149.05971	149.06025
2018	Piperonylbutoxide	51-03-6	20.2		C9H11	119.08553	119.08608
2018	Pirimiphos-ethyl	23505-41-1	14.7		C7H10N3S	168.05900	168.05954
2018	Pirimiphos-ethyl	23505-41-1	14.7		C12H21N3O3PS	318.10358	318.10413
2018	Pirimiphos-ethyl	23505-41-1	14.7		C11H19N3O3PS	304.08793	304.08848
2018	Pirimiphos-ethyl	23505-41-1	14.7	333.12760	C13H24N3O3PS		
2014	Plifenate	21757-82-4	12.8	333.88890	C10H7O2Cl5		
2014	Plifenate	21757-82-4	12.8		C8H4Cl4	239.90616	239.90671
2014	Plifenate	21757-82-4	12.8		C9H7O2Cl2	216.98176	216.98231
2014	Plifenate	21757-82-4	12.8		C7H3OCl2	172.95555	172.95610
2014	Plifenate	21757-82-4	12.8		C8H4Cl2	169.96846	169.96901
2015	Pretilachlor	51218-49-6	16.8	311.16520	C17H26NO2Cl		
2015	Pretilachlor	51218-49-6	16.8		C16H24NO2	262.18016	262.18070
2015	Pretilachlor	51218-49-6	16.8		C13H17NOCl	238.09932	238.09987
2015	Pretilachlor	51218-49-6	16.8		C12H16NOCl	225.09149	225.09204
2015	Pretilachlor	51218-49-6	16.8		C13H16NO	202.12264	202.12319
2015	Pretilachlor	51218-49-6	16.8		C11H14NO	176.10699	176.10754
2015	Pretilachlor	51218-49-6	16.8		C11H16N	162.12773	162.12828
2014	Profluralin	26399-36-0	11.3	347.10930	C14H16N3O4F3		
2014	Profluralin	26399-36-0	11.3		C14H15N3O3F3	330.10600	330.10655
2014	Profluralin	26399-36-0	11.3		C12H11N3O4F3	318.06962	318.07017
2014	Propachlor	1918-16-7	9.6	211.07640	C11H14NOCl		
2014	Propachlor	1918-16-7	9.6		C11H14NO	176.10699	176.10754
2014	Propachlor	1918-16-7	9.6		C8H8NOCl	169.02889	169.02944
2014	Propachlor	1918-16-7	9.6		C8H10N	120.08078	120.08132
2014	Propachlor	1918-16-7	9.6		C7H6NO	120.04439	120.04494
2018	Propanil	709-98-8	12.4	217.00612	C9H9Cl2NO		
2018	Propanil	709-98-8	12.4		C6H5Cl2N	160.97936	160.97991
2018	Propanil	709-98-8	12.4		C6H5(37Cl)ClN	162.97641	162.97696
2018	Propanil	709-98-8	12.4		C9H9Cl2NO	217.00557	217.00612
2015	Propaphos	7292-16-2	15.7	304.08980	C13H21O4PS		
2015	Propaphos	7292-16-2	15.7		C10H15O4PS	262.04232	262.04287

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2015	Propaphos	7292-16-2	15.7		C7H9O4PS	219.99537	219.99592
2015	Propaphos	7292-16-2	15.7		C7H7O3PS	201.98480	201.98535
2015	Propaphos	7292-16-2	15.7		C7H8OS	140.02904	140.02959
2018	Proquinazid	189278-12-4	20.0	381.96543	C14H8Cl3F3N2O		
2018	Proquinazid	189278-12-4	20.0		C8H5IN2O2	287.93903	287.93958
2018	Proquinazid	189278-12-4	20.0		C7H4INO	244.93322	244.93377
2018	Proquinazid	189278-12-4	20.0		C8H3INO2	271.92031	271.92086
2018	Pyraclofos	89784-60-1	23.7	360.04643	C14H18ClN2O3PS		
2018	Pyraclofos	89784-60-1	23.7		C9H7ClN2O	194.02414	194.02469
2018	Pyraclofos	89784-60-1	23.7		H2O2PS	96.95077	96.95132
2018	Pyraclofos	89784-60-1	23.7		C14H18ClN2O3PS	360.04588	360.04643
2024	Pyraclonil	158353-15-2	24.4	314.10467	C15H15N6Cl		
2024	Pyraclonil	158353-15-2	24.4		C15H14N6Cl	313.09630	313.09685
2024	Pyraclonil	158353-15-2	24.4		C14H19N2O4	279.13390	279.13448
2024	Pyraclonil	158353-15-2	24.4		C19H11N2O2	299.08150	299.08205
2018	Pyridalyl	179101-81-6	26.8	488.96799	C18H14Cl4F3NO3		
2018	Pyridalyl	179101-81-6	26.8		C9H9F3NO	204.06307	204.06362
2018	Pyridalyl	179101-81-6	26.8		C3H3Cl2	108.96063	108.96118
2018	Pyridalyl	179101-81-6	26.8		C6H5F3NO	164.03177	164.03232
2015	Rabenzazole	40341-04-6	14.2	212.10620	C12H12N4		
2015	Rabenzazole	40341-04-6	14.2		C12H9N3	195.07910	195.07965
2015	Rabenzazole	40341-04-6	14.2		C10H8N3	170.07127	170.07182
2015	Rabenzazole	40341-04-6	14.2		C7H6N2	118.05255	118.05310
2014	Resmethrin	10453-86-8	20.2	338.18820	C22H26O3		
2014	Resmethrin	10453-86-8	20.2		C12H11O	171.08044	171.08099
2014	Resmethrin	10453-86-8	20.2		C11H11	143.08553	143.08608
2014	Resmethrin	10453-86-8	20.2		C10H8	128.06205	128.06260
2014	Resmethrin	10453-86-8	20.2		C9H15	123.11683	123.11738
2024	Sedaxane	874967-67-6	24.2	331.14961			
2024	Sedaxane	874967-67-6	24.2		C18H19N3OF2		
2024	Sedaxane	874967-67-6	24.2		C12H14N	172.11210	172.11260
2024	Sedaxane	874967-67-6	24.2		C6H5N2OF2	159.03640	159.03700
2015	Schradan	152-16-9	10.9	286.13240	C8H24N4O3P2		
2015	Schradan	152-16-9	10.9		C6H19N3O3P2	243.08962	243.09017
2015	Schradan	152-16-9	10.9		C4H13N2O3P2	199.03959	199.04014
2015	Schradan	152-16-9	10.9		C4H14N2O2P	153.07874	153.07929
2015	Schradan	152-16-9	10.9		C4H12N2OP	135.06818	135.06873
2018	Sebuthylazine	7286-69-3	12.7	229.10942	C9H16ClN5		
2018	Sebuthylazine	7286-69-3	12.7		C9H16ClN5	229.10888	229.10942

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Sebuthylazine	7286-69-3	12.7		C8H3CIN5	204.00715	204.00770
2018	Sebuthylazine	7286-69-3	12.7		C7H11CIN5	200.06975	200.07030
2018	Sebuthylazine	7286-69-3	12.7		C7H11(37Cl)N5	200.06975	200.07030
2018	Sebuthylazine	7286-69-3	12.7		C5H7CIN5	172.03845	172.03900
2018	Sebuthylazine	7286-69-3	12.7		C5H8N5	138.07742	138.07797
2018	Silafluofen	105024-66-6	27.0	408.19209	C25H29FO2Si		
2018	Silafluofen	105024-66-6	27.0		C10H15OSi	179.08867	179.08922
2018	Silafluofen	105024-66-6	27.0		C15H15FOSi	258.08707	258.08762
2018	Silafluofen	105024-66-6	27.0		C17H19FOSi	286.11837	286.11892
2018	Simazine	122-34-9	11.6	201.07812	C7H12CIN5		
2018	Simazine	122-34-9	11.6		C7H12CIN5	201.07758	201.07812
2018	Simazine	122-34-9	11.6		C6H9CIN5	186.05410	186.05465
2018	Simazine	122-34-9	11.6		C5H8CIN5	173.04628	173.04682
2018	Simazine	122-34-9	11.6		C4H7CIN5	160.03845	160.03900
2018	Simazine	122-34-9	11.6		C4H4CIN4	143.01190	143.01245
2018	Simazine	122-34-9	11.6		C5H8N5	138.07742	138.07797
2018	Simazine	122-34-9	11.6		C5H7N4	123.06652	123.06707
2018	Simetryn	1014-70-6	13.6	213.10482	C8H15N5S		
2018	Simetryn	1014-70-6	13.6		C8H15N5S	213.10427	213.10482
2018	Simetryn	1014-70-6	13.6		C7H12N5S	198.08079	198.08134
2018	Simetryn	1014-70-6	13.6		C6H11N5S	185.07297	185.07352
2018	Simetryn	1014-70-6	13.6		C5H8N5S	170.04949	170.05004
2018	Simetryn	1014-70-6	13.6		C5H7N4S	155.03860	155.03914
2015	Tebupirimfos	96182-53-5	12.0	318.11670	C13H23N2O3PS		
2015	Tebupirimfos	96182-53-5	12.0		C10H17N2O3PS	276.06920	276.06975
2015	Tebupirimfos	96182-53-5	12.0		C9H14N2O3PS	261.04573	261.04628
2015	Tebupirimfos	96182-53-5	12.0		C7H11N2O3PS	234.02225	234.02280
2015	Tebupirimfos	96182-53-5	12.0		C8H12N2O	152.09441	152.09496
2015	Tebupirimfos	96182-53-5	12.0		C7H9N2O	137.07094	137.07149
2018	Tebutam	35256-85-0	11.1	233.17796	C15H23NO		
2018	Tebutam	35256-85-0	11.1		C15H23NO	233.17742	233.17796
2018	Tebutam	35256-85-0	11.1		C12H16NO	190.12264	190.12319
2018	Tebutam	35256-85-0	11.1		C8H16NO	142.12264	142.12319
2018	Tebutam	35256-85-0	11.1		C7H7	91.05423	91.05478
2018	Tebutam	35256-85-0	11.1		C4H9	57.06988	57.07043
2015	Terbufos	13071-79-9	11.3	288.04410	C9H21O2PS3		
2015	Terbufos	13071-79-9	11.3		C5H12O2PS3	230.97316	230.97370
2015	Terbufos	13071-79-9	11.3		C4H10O2PS	153.01336	153.01391
2015	Terbufos	13071-79-9	11.3		H2O2PS	96.95076	96.95131

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Tetrasul	2227-13-6	18.5	321.89443	C12H6Cl4S		
2018	Tetrasul	2227-13-6	18.5		C12H6Cl2S	251.95618	251.95673
2018	Tetrasul	2227-13-6	18.5		C12H6(37Cl)ClS	253.95323	253.95378
2018	Tetrasul	2227-13-6	18.5		C12H6(37Cl)Cl3S	323.89094	323.89148
2014	Thenylchlor	96491-05-3	20.0	323.07470	C16H18NO2SCI		
2014	Thenylchlor	96491-05-3	20.0		C16H18NO2S	288.10528	288.10583
2014	Thenylchlor	96491-05-3	20.0		C7H6NO2S	168.01138	168.01192
2014	Thenylchlor	96491-05-3	20.0		C7H9OS	141.03686	141.03741
2014	Thenylchlor	96491-05-3	20.0		C9H10N	132.08078	132.08132
2014	Thenylchlor	96491-05-3	20.0		C6H7OS	127.02121	127.02176
2014	Tiocarbazil	36756-79-3	14.3	279.16570	C16H25NOS		
2014	Tiocarbazil	36756-79-3	14.3		C9H18NO	156.13829	156.13884
2014	Tiocarbazil	36756-79-3	14.3		C5H10NO	100.07569	100.07624
2014	Tiocarbazil	36756-79-3	14.3		C7H7	91.05423	91.05478
2018	Tralkoxydim	87820-88-0	22.8	329.19909	C20H27NO3		
2018	Tralkoxydim	87820-88-0	22.8		C7H7NO2	137.04713	137.04768
2018	Tralkoxydim	87820-88-0	22.8		C6H7NO	109.05222	109.05276
2018	Tralkoxydim	87820-88-0	22.8		C18H21NO2	283.15668	283.15723
2018	Tralomethrin	66841-25-6	29.0	660.80984	C22H19Br4NO3		
2018	Tralomethrin	66841-25-6	29.0		C13H9O	181.06479	181.06534
2018	Tralomethrin	66841-25-6	29.0		C7H9Br2	250.90655	250.90710
2018	Tralomethrin	66841-25-6	29.0		C6H9Br2O	254.90146	254.90201
2018	Triadimenol	55219-65-3	16.4	295.10876	C14H18ClN3O2		
2018	Triadimenol	55219-65-3	16.4		C8H14N3O	168.11314	168.11369
2018	Triadimenol	55219-65-3	16.4		C8H12N3	150.10257	150.10312
2018	Triadimenol	55219-65-3	16.4		C6H5ClO	128.00235	128.00289
2018	Triadimenol	55219-65-3	16.4		C4H6N3O	112.05054	112.05109
2018	Triallate	2303-17-5	12.6	303.00182	C10H16Cl3NOS		
2018	Triallate	2303-17-5	12.6		C10H16(37Cl)2NOS	268.03242	268.03297
2018	Triallate	2303-17-5	12.6		C10H16Cl2NOS	268.03242	268.03297
2018	Triallate	2303-17-5	12.6		C3H2Cl3	142.92166	142.92221
2018	Triallate	2303-17-5	12.6		C7H14NO	128.10699	128.10754
2018	Triallate	2303-17-5	12.6		C4H8NO	86.06004	86.06059
2015	Tribufos	78-48-8	16.8	314.09620	C12H27OPS3		
2015	Tribufos	78-48-8	16.8		C8H19OPS3	258.03302	258.03356
2015	Tribufos	78-48-8	16.8		C8H19OPS2	226.06095	226.06149
2015	Tribufos	78-48-8	16.8		C4H11OPS3	201.97042	201.97096
2015	Tribufos	78-48-8	16.8		C4H10OPS2	168.99052	168.99107
2015	Tribufos	78-48-8	16.8		H4OPS3	146.91564	146.91619

	Compound	CAS	Rt	Molecular weight	Formula	Fragment m/z -e	Fragment m/z neutral
2018	Trichloronate	327-98-0	14.4	331.93612	C10H12Cl3O2PS		
2018	Trichloronate	327-98-0	14.4		C2H6OPS	108.98715	108.98770
2018	Trichloronate	327-98-0	14.4		C8H8Cl2O2PS	268.93542	268.93597
2018	Trichloronate	327-98-0	14.4		C10H12Cl2O2PS	296.96672	296.96727
2014	Triclopyr-methylester	60825-26-5	11.3	268.94130	C8H6NO3Cl3		
2014	Triclopyr-methylester	60825-26-5	11.3		C6H3NOCl3	209.92747	209.92802
2014	Triclopyr-methylester	60825-26-5	11.3		C5HNCl3	179.91691	179.91746
2024	Triclosan	3380-34-5	16.7	287.95116	C12H7O2Cl3		
2024	Triclosan	3380-34-5	16.7		C12H7O2Cl2Cl(37)	289.94770	289.94821
2024	Triclosan	3380-34-5	16.7		C12H7O2Cl	218.01290	218.01346
2024	Triclosan	3380-34-5	16.7		C6H4Cl2	145.96850	145.96901
2018	Triflumizole	68694-11-1	15.6	345.08557	C15H15ClF3N3O		
2018	Triflumizole	68694-11-1	15.6		C8H4ClF3N	205.99789	205.99844
2018	Triflumizole	68694-11-1	15.6		C7H3ClF3	178.98699	178.98754
2018	Triflumizole	68694-11-1	15.6		C12H12ClF3NO	278.05540	278.05595
2024	Triflumizole_metabolite_FM-6-1	109849-99-2	11.9	294.07468	C12H14N2OCIF3		
2024	Triflumizole_metabolite_FM-6-1	109849-99-2	11.9		C11H5NO	167.03660	167.03711
2024	Triflumizole_metabolite_FM-6-1	109849-99-2	11.9		C11H2NOF3	221.00830	221.00885
2024	Triflumizole_metabolite_FM-6-1	109849-99-2	11.9		C8H4N2ClF2	201.00260	201.00311
2014	XMC	2655-14-3	6.7	179.09460	C10H13NO2		
2014	XMC	2655-14-3	6.7		C8H10O	122.07262	122.07317
2014	XMC	2655-14-3	6.7		C7H7O	107.04914	107.04969